## A THESIS

## GRADUATES DEMAND ON ENGLISH EDUCATION

 CURRICULUM OF IAIN PAREPARE (A NEED ANALYSIS STUDY)

ENGLISH EDUCATION PROGRAM
TARBIYAH FACULTY
STATE ISLAMIC ISTITUTE (IAIN)
PAREPARE

## A THESIS

## GRADUATES DEMAND ON ENGLISH EDUCATION CURRICULUM OF IAIN PAREPARE (A NEED ANALYSIS STUDY)



Submitted to the English Education Program of Tarbiyah Faculty of State Islamic Institute of Parepare in Partial of Fulfilment of the Requirements for the Degree of Sarjana Pendidikan (S.Pd.)

# ENGLISH EDUCATION PROGRAM TARBIYAH FACULTY STATE ISLAMIC ISTITUTE (IAIN) <br> PAREPARE 

# GRADUATES DEMAND ON ENGLISH EDUCATION 

 CURRICULUM OF IAIN PAREPARE (A NEED ANALYSIS STUDY)
## A THESIS

As Partial Fulfillment of the Requirements for the Degree of Sarjana Pendidikan (S. Pd.)

## English Education Program

Submitted by:

## BY

SYAIFUL
Reg. Num. 18.1300.032

ENGLISH EDUCATION PROGRAM
TARBIYAH FACULTY
STATE ISLAMIC INSTITUTE (IAIN)
PAREPARE

2022 M / 1443 H

## ENDORSEMENT OF CONSULTANT COMMISSIONS



## A THESIS

# GRADUATES DEMAND ON ENGLISH EDUCATION CURRICULUM OF IAIN PAREPARE (A NEED ANALYSIS STUDY) 

Submitted by

SYAIFUL
Reg. Num. 18.1300.032

Has been examined on February, $14^{\text {th }} 2022$ and had been declared that fulfilled the


## ENDORSEMENT OF EXAMINER COMMISSIONS



## ACKNOWLEDGEMENTS



In the name of Allah, the Beneficent and the Merciful
Alhamdulillahi Rabbil Alamin. All praises be to Allah SWT. who has given the writer good health, guidance and strenght in completing this skripsi. Salawat and Salam always be adressed to the last messenger, the great prophet Muhammad SAW. Who has struggled for our victory and become a good example for us last ever.

First, the writer would like to express the greatest gratitude to his beloved parents Abd Yusri Said and Jumriah, and also his family who have given an endless love, support and contributions both moral and material to the writer.

The writer is deeply grateful to his advisor, Dr. Zulfah, M. Pd., and Drs. Abd Rauf Ibrahim, M. Si., who have patiently guided and give their great suggestions, contributions, guidance, advices, and corrections in finishing this skripsi.

Furthermore, the writer would like to say thanks and appreciate to:

1. Dr. Ahmad Sultra Rustan, M. Si., as the rector of IAIN Parepare who has worked hard to manage education at IAIN Parepare.
2. Dr. H. Saepudin, M. Pd., as the Dean of Tarbiyah Faculty IAIN Parepare who has created such a great serving to the students.
3. Mujahidah, M. Pd., as the Chairman of English education program for her great dedication and support for the students.
4. All the lectures of English program who have already taught the writer during his study in IAIN Parepare.
5. The staff of Tarbiyah Faculty who has worked hard to complete the administration for this skripsi.
6. My second family in Ma'had Al-Jami'ah IAIN Parepare for their supports to the writer to finish his skripsi.
7. PBI 2018 family who have accompanied the writer's journey while on campus.
8. Aleter. Id for the knowledge and the guidance in helping the writer to finish this skripsi.
9. My brothers Aldi Fatriadi, Zulkarnaen and Fajar Shadiq, Amal Tasbi for their motivation and favor to the writer.
10. All his friends who always care, give support, help and contribution that the writer cannot mention one by one.

Finally, the writer realized that this skripsi cannot be considered perfect without critiques and suggestion. Therefore, it is such a pleasure for him to get some critiques and suggestion to make it better. Then he wishes that this skripsi be some valuable writing. Aamiin.


## DECLARATION OF THE AUTHENTICITY OF THE SKRIPSI

The writer who signed the declaration below:

Name
: Syaiful
Student Reg. Number : 18.1300.032
Place and Date of Birth : Pinrang, 17 February 2000
Study Program : English Education
Faculty : Tarbiyah
Tittle of Skripsi
Graduates Demand on English Education Curriculum of IAIN Parepare (A Need Analysis Study)

Stated this skripsi was his own writing and if it can be proved that it was copied, duplicated or complied by any other people, this skripsi and the degree that has been gotten would be postponed.



#### Abstract

Syaiful. Graduates Demand on English Education Curriculum at IAIN Parepare (A Need Analysis Study). (Supervised by Zulfah and Abd Rauf Ibrahim).

This research aims to provide information about the graduates demand on English education curriculum of IAIN Parepare. This research is descriptive study with a survey method. The population of this research is the graduates of English Education Program at IAIN Parepare.

The total population of this study were 255 graduates. In this research, purposive sampling is used to determine the sample and the number of samples are 72 graduates which is done by the Slovin formula. This research used questionnaire in collecting the data and using percentage technique to see the frequency of the respondents' answers.

The result of this research shows that the graduates necessities on English education curriculum are courses that have a direct impact on their teaching abilities. The graduates lacks on English curriculum shows that the courses that are considered lacking and need to be developed are practical courses that are able to support a career as a teacher. The graduates wants on English education curriculum, it shows that most of the courses that graduates want and are expected to include in the curriculum are subjects with English Skills and English Sub Skills categories with an average percentage above $70 \%$.


## Keywords: Curriculum, Need Analysis, Graduates Demand

## TABLE OF CONTENTS

COVER ..... i
SUBMISSION PAGE ..... iii
ENDORSMENT OF CONSULTANT COMMISSIONS ..... iv
ENDORSMENT OF EXAMINER COMMISSIONS ..... vi
AKNOWLEDGEMENTS ..... vii
DECLARATION OF THE AUTHENTICITY OF THE SKRIPSI ..... ix
ABSTRACTS ..... x
TABLE OF CONTENTS ..... xi
LIST OF TABLES ..... xiii
LIST OF FIGURES ..... xv
LIST OF APPENDICES ..... xvi
CHAPTER I INTRODUCTION ..... 1
A. Background ..... 1
B. Research Question ..... 3
C. Objective of the Research ..... 4
D. Significance of the Research ..... 4
CHAPTER II REVIEW OF RELATED LTERATURE ..... 5
A. Previous Research Findings. ..... 5
B. Some Pertinent Ideas ..... 6
C. Conceptual Framework ..... 20
CHAPTER III RESEARCH METHOD ..... 21
A. Research Design ..... 21
B. Population and Sample ..... 21
C. Operational Definition of Variable ..... 23
D. Instrumen of the Reserach ..... 23
E. Technique of Data Collection ..... 23
F. Technique of Data Analysis ..... 24
CHAPTER IV FINDINGS AND DISCUSSION ..... 25
A. Findings ..... 26
B. Discussion ..... 42
CHAPTER V CONCLUSION AND SUGGESTION ..... 47
A. Conclusion ..... 47
B. Suggestion ..... 47
BIBLIOGRAPHY ..... 49

## LIST OF TABLES

| Number <br> of Table | The Tittle of Tables | Pages |
| :---: | :---: | :---: |
| 2.1 | The Curriculum of English Education | 17 |
| 4.1 | Graduates Necessities on Teaching Studies | 25 |
| 4.2 | Graduates Necessities on English Skill | 27 |
| 4.3 | Graduates Necessities on English Sub Skill | 27 |
| 4.4 | Graduates Necessities on Linguistics | 28 |
| 4.5 | Graduates Necessities on Culture | 28 |
| 4.6 | Graduates Necessities on Islamic Studies | 29 |
| 4.7 | Graduates Necessities on General Subject | 30 |
| 4.8 | Graduates Necessities on Supporting Subjects | 30 |
| 4.9 | Graduates Lacks on Teaching Studies | 31 |
| 4.10 | Graduates Lacks on English Skill | 32 |
| 4.11 | Graduates Lacks on English Sub Skill | 33 |
| 4.12 | Graduates Lacks on Linguistics | 33 |
| 4.13 | Graduates Lacks on Culture | 34 |


| 4.14 | Graduates Lacks on Islamic Studies | 35 |
| :---: | :--- | :---: |
| 4.15 | Graduates Lacks on General Subject | 35 |
| 4.16 | Graduates Lacks on Supporting Subjects | 36 |
| 4.17 | The aspects to be Developed | 36 |
| 4.18 | Graduates Wants on Teaching Studies | 37 |
| 4.19 | Graduates Wants on English Skill | 38 |
| 4.20 | Graduates Wants on English Sub Skill | 39 |
| 4.21 | Graduates Wants on Linguistics | 39 |
| 4.22 | Graduates Wants on Culture | 40 |
| 4.23 | Graduates Wants on Islamic Studies | 40 |
| 4.24 | Graduates Wants on General Subject | 41 |
| 4.25 | Graduates Wants on Supporting Subjects | 41 |

## LIST OF FIGURES

| Number of Figure | The Tittle of Figure | Page |
| :---: | :--- | :---: |
| 2.1 | Conceptual Framework | 20 |

## LIST OF APPENDICES

| Number of <br> Apendix | The Tittle of Appendices |
| :---: | :--- |
| 1. | Research Permit Recommendation |
| 2. | Permission Research |
| 3. | Letter of Research Completion |
| 4. | The Subjects of English Education Program |
| 5. | Questionnaire |
| 6. | The Result of the Questionnaire |
| 7. | Documentation |
| 8. |  |

## CHAPTER I

## INTRODUCTION

## A. Background

The success of education in higher education is determined by several factors, one of them is the graduates quality. To produce qualified graduates, a well-arranged curriculum is needed in order to meet the competence. Curriculum as a reference for educational programs provided by an educational institution that contains the design of lessons to be given to students. In the field of formal education, curriculum plays an important role in achieving learning goals.

Curriculum have a very strategic position, especially in educational institutions. Curriculum is an integral part of education and learning. Without a good curriculum, the implementation of education and learning will be messed up and have no clear objectives. Curriculum as a plan for learning. ${ }^{1}$ Curriculum aims as a direction or guideline in the implementation of the learning process. The curriculum directs all educational activities in order to achieve educational objectives. McKimm stated that curriculum serves as a vehicle to realize the educational objectives of each type, function or unit of education which in turn is a national educational goal. ${ }^{2}$

The educational curriculum in Indonesia often changes. These changes occur because of dissatisfaction with the results of education. Apart from that, curriculum changes also occur due to the development of science so that the needs of the field of education are also growing.

It is obtainable that curriculum changes are happening in Indonesia because the science is always dynamic. The main reason of curriculum changing

[^0]is as the revision, evaluation, and correction of the previous curriculum. ${ }^{3}$ In addition, the change is also influenced by human needs that are always changing.

Curriculum changes are made to answer the challenges of the changing times. Therefore, the students are able to compete in the future. Another reason of curriculum changes is the previous curriculum is considered burden some for the students.

Basicly, the curriculum does not stand alone but is influenced by the changes in the economic, political, and cultural climate. Therefore, to change a curriculum, it takes more much consideration to the factors that can influence the curriculum changes.

One of the most important factors that must be considered in curriculum changes is the conformity between the curriculum and the target competency of graduates in one educational institution. The fact shows that education today must be oriented to the competencies needed after graduation. This era causes the education get challenges, especially in preparing the next generation that can compete in this era. Therefore, all levels of education should be developed according to the needs in order to prepare the generation that have a good quality. ${ }^{4}$ It shows that education should be implemented in accordance with the needs of graduates. Similarly, learning in college must adapt to the curriculum of each course.

Curriculum development is carried out by involving stakeholders to ensure the relevance of education to the needs of life and the world of work. Therefore, curriculum development should consider and pay attention to the development of personal integrity, spiritual intelligence, thinking skills, social

[^1]creativity, academic ability and vocational skills. The curriculum was developed with attention to global, national and local interests to build the lives of society, nation and state.

The fact shows, the education today is faced with the challenges. Many aspects of life have changed and shifted. Therefore, the paradigm and education system must be adapted to the demand of the times. Of course, these changes are expected to lead to a better future education.

Moreover, the curriculum used in English program at IAIN Parepare integrated with Islamic context. Therefore, it is important to know whether the available subjects in the curriculum of English Program of IAIN Parepare has been in accordance with the needs of the graduates. ${ }^{5}$

Thus, there are several principles that must be considered in curriculum development. One of them is the principle of relevance. The purpose, content, and learning process included in the curriculum should be relevant to the demand, needs, and development of society. The curriculum prepares students to be able to live and work in the community.

Based on the above problems and explanations, this research entitled "Graduates Demand on English Education Curriculum of IAIN Parepare (A Need Analysis Study)" which is focused onthe curriculum of English Program at IAIN Parepare.

## B. Research Question

Based on the background previously covered, the researcher formulates the research question as follows:

1. What are the graduates necessities on English education curriculum of IAIN Parepare?
2. What are the lacks of English education curriculum of IAIN Parepare?

[^2]3. What are the graduates wants on English education curriculum of IAIN Parepare?

## C. Objective of the Research

Referring the above research question, the objectives of the research are formulated as follows:

1. To show the graduates necessities on English education curriculum of IAIN Parepare.
2. To show the lacks of English education curriculum of IAIN Parepare.
3. To show the graduates wants on English education curriculum of IAIN

## Parepare.

## D. Significance of the Research

The result of this study is expected to be able to provide the following benefits:

1. For the Curriculum Maker

This research can provide the information for the Curriculum Maker in arranging the content of English education curriculum in IAIN Parepare.
2. Further Researchers

The results of this research is expected as a basic consideration and providing information for doing further research.

## CHAPTER II <br> REVIEW OF RELATED LITERATURE

This chapter describes the description of the previous research findings and some pertinent ideas of the research.

## A. Previous Research Findings

There have been some previous studies which are related to curriculum issues as follows:

The issues related to need-based curriculum development was conducted by Betti and Rostika in 2018 and Wenli Tsou in 2009. ${ }^{6}$ These studies are descriptive case study and need-based approach in course design which focus on describing the students' needs for English learning. The result of this study shows that the students need speaking skill and subjects that relate to the jobs and stakeholders needs. ${ }^{7}$

The next issue is about evaluating the implementation of English education curriculum at UIN Makassar. It was conducted by Kaharuddin, et. al., in 2021. The design of this research is adapted Stake's Countenance Model and using both qualitative and quantitative to present the data. It shows that the curriculum implementation was medium with the score $48.75 \%$. It indicates that the curriculum needs to be evaluated annually to ensure the program qualityand anticipate the development of job market needs. ${ }^{8}$

[^3]Another issue is about demand-driven extension curriculum on the competencies of graduate conducted by Joseph A. Kwarteng and Samuel Akuamoah Boateng in 2012. This study utilized a descriptive survey design and using questionnaire to collect the data. The result shows that the curriculum of the B. Sc. Agricultural Extension program and experiental learning works have been very effective and matching with the graduates needs. ${ }^{9}$

Furtheremore, some researchers have conducted studies in thecurriculum development. The issues are about the factors that affect the process of curriculum development ${ }^{10}$, and the steps of curriculum process ${ }^{11}$. These studies were done by literature review. The result of this studies show the set of steps as a guide within the curriculum development process.

The difference of this study from the previous studies is English need analysis for the context of Islamic Institute. The curriculum contains integration of English, Islamic, culture, and teaching study.

## B. Some Pertinent Ideas

## 1. Curriculum

The word curriculum comes from the Latin Currere that means 'to run'. It shows that one of the function of the curriculum is to provide a design that allows learning to take place. The curriculum defines the learning that is expected to run during the course in term of knowledge, skills, and attitude, they should define the main teaching, learning and assesment methods and

[^4]provide a learning resources indication needed to support the effective of the course delivery. ${ }^{12}$

Curriculum is a set of plans and arrangements on the content and materials of lessons and ways used as guidelines for the implementation of learning activities. Curriculum serves as a vehicle to realize the educational objectives of each type, function or unit of education which in turn is a national educational goal. Simply, Curriculum is a plan for learning. ${ }^{13}$

## a. Curriculum Development

Curriculum development is the process of planning and compiling a curriculum by a curriculum developer and activities carried out so that the result of the curriculum can be a teaching material and reference that is used to achieve educational goals. ${ }^{14}$

In the curriculum development process, there are three activities that are always related, namely design, implementation and evaluation. Curriculum development is an ongoing process between various component, they are: orientation, development, and evaluation. ${ }^{15}$

Furtheremore, Curriculum development is seen as a mechanism that addresses the needs of students and contributes to learning. As a result, curriculum creators can collect as much information as possible about the needs of the students. The process of gathering knowledge about the learners' needs is known as needs analysis. ${ }^{16}$

[^5]Curriculum development focuses on deciding what knowledge, skills, and values that students get in school, what opportunities can be delivered to achieve desired learning outcomes, and how teaching and learning can be prepared, assessed, and evaluated in school or educational system. ${ }^{17}$

As Maerfat in his paper stated that:
"The goal of a successful educational program and thus effective curriculum development should be to meet the needs and current demands of the culture, the society, and the expectations of the population being served. ${ }^{18}$

Broadly, curriculum development can be devided in two forms, namely:

1) Development of a new curriculum (curriculum construction). The development of this curriculum is the development of a curriculum that is done for a new educational institution or for a new subject or it can also be for a new learning activity, which previously had absolutely no curriculum.
2) Improving the existing curriculum (curriculum reconstruction). The development of the curriculum which is a reconstruction of the existing curriculum is the development of a curriculum that has been considered to have missed the development of the curriculum in the form of improving the existing curriculum into a new curriculum concept.

## b. Curriculum Design

Curriculum design is the organization of goals, content and learning activities that students will undertake at various stages of

[^6]educational development. In the curriculum design, various elements of the curriculum will be described, the relationships between one element and another. According to Fred Percival and Henry Ellington, curriculum design is the development of a process of planning, validating, implementing, and evaluating the curriculum. ${ }^{19}$

Curriculum design is the development of a process for planning, validating, implementing, and evaluating the curriculum. ${ }^{20}$ Curriculum design can also be defined as a plan or arrangement of curriculum elements consisting of objectives, content, learning experiences and evaluation.

## 1) Subject-Centered Design

Subject-centered design is the most widely used approach. This design evolves from the classical educational concept that emphasizes knowledge, values and cultural heritage of the past, and seeks to be passed on to the next generation. In the subject-centered design there is a curriculum consisting of several subjects, the aim of which is that students are able to master the material from each subject that has been determined logically, systematically, and deeply. ${ }^{21}$
2) Learner-Centered Design

Learner-centered design Learner-centered design or learnercentered design is a curriculum design approach that places students in a central position. This design is intended to develop talents that are in line with the interests of students. Educators only function as facilitators and

[^7]motivators. Learner-centered design prioritizes individual development, therefore it does not have a standard organizational pattern.

## 3) Problem-Centered Design

Problem-centered design is developed based on philosophical thinking about the role of humans in society. If the activity/ experience based curriculum design places the participants students as individuals in the process learning, then the problem-based curriculum design places students as members of society who must be able to solve problems faced by their community for the common welfare.

## 4) Broad Field Design

This curriculum design is an effort to improve the design with a subject approach and a disciplinary approach. This concept was developed with the intention of eliminating weaknesses in subject design and discipline design that were deemed unable to eliminate the separation between subjects. By bringing together several related or close subjects, it is hoped that it can improve students' understanding of the relationship between various life phenomena.
5) The Discipline-Centered Design

The premise of curriculum design thinking with a disciplinary approach is the same as curriculum design with a subject approach, but with more specific objective criteria, namely vocational application. Thus, a curriculum design with a disciplinary approach was developed for vocational education and professional higher education. ${ }^{22}$

## 2. Need Analysis

Need analysis is a tool for defining and resolving the needs that exist between the present state and desired state. To accurately define needs, the

[^8]difference between the current and desired state must be measured. This requirement may be expressed aas a willingness to improve current result of fix deficiencies. ${ }^{23}$ Iwai et al., in Songhori stated that the term of need analysis is generally related to the activities that involved in gathering information that is used as a basis for developing a curriculum that will meet the needs of students in learning process. ${ }^{24}$

Need analysis can be understood as a study to find out nformation and answers to certain questions. In carrying out a need analysis, question and objectives must be determined as quickly as possible because it is used as a guide in selecting the appropriate data collection methods and tools. Good need analysis will involve asking the right questions and finding answers in a very effective way. ${ }^{25}$

Need analysis or need assesment is a process which means that there is a series of activities in implementing the need assessment. Need analysis is not a result, but a certain activity in an effort to take certain decisions. Need itself is essentially the gap between hope and reality. Thus, need assesment is an activity to collect information about the gaps that each student should have with whaat they already have. ${ }^{26}$
a. The Purpose of Need Analysis

According to Richard, the first step that must be taken in conducting a need analysis is to decide exactly what the purpose or purpose

[^9]of the analysis is to do. In general, needs analysis in language teaching can be used for several different purpose, such as: ${ }^{27}$

1) To find out what language skills students need to carry out certain roles.
2) To help determine whether an existing course is sufficient to meet the needs of a purspective students.
3) To determine which students from a group most need training in certain language skills.
4) To identify changes in direction that people in the reference group feel are important.
5) To identify gaps between what students can do and what they need to be able to do.
6) To gather information about specific problems experienced by students.

Songhori in his paper entitled Inroduction to Need Analysis also elaborated that:
"The concept of need analysis includes environmental situation - information about the situation in which the course will be run (means analysis); Personal information about learners factors which may affect the way they learn (wants, means, subjective needs); language information about learners - what their current skills and language use are (present situation analysis); learner's lack (the gap between the present situation and professional information about learners); learner's needs from course - what is wanted from the course (short-term needs); Language learning needs - effective ways of learning the skills and language determined by lacks; professional information about learners - the tasks and activities English learners are/will be using English for (Target Situation Analysis and objective needs); How to communicate in the target situation - knowledge of how language and skills are

[^10]used in the target situation (register analysus, discourse analysis, genre analysis). ${ }^{28}$
The following are several objectives in need analysis: ${ }^{29}$

1) Provides information for planning

The result of the need analysis can be in the form of identification of objectives, the determinination of the timeframe needed to achieve the goal, or the specification of the area to place recources and effort.
2) Diagnosis or identification of problems

Need analysis is used to solve problems. Focused on finding ineffective processes or system so that improvements can be made.
3) Determine the assesment criteria

Needs analysis as a component of several evaluation models. The results become part of the evaluation results or as the basis for determining evaluation criteria.
4) Praising or criticizing the instution

The results of need analysis can be used to determine whether the education or training efforts in the company are running effectively and efficiently or not.
b. The Steps for Need Analysis

Need analysis in the form of activities that is illustrated by Glasgow starting from gathering information to formulating problem. The form of steps for need analysis is as follows: ${ }^{30}$

1) Information Gathering
[^11]In this stage, the designer must be able to understand and collect information from students. The scope of information from students. The scope of information gathering can vary such as student characteristics, personal abilities, and problems in learning.

## 2) Gap Identification

Identifying gaps is by using the Organizational Element Model method, which in this method explains the existence of five interrelated elements. Starting from the input-process-product-output-outcome.
3) Performance Analysis

This stage is carried out after the designer undersatands various information and identifies existing gaaps. In this case, when a gap is found, it is identified which gaps can be solved through lesson planning and which ons require other solutions.
4) Identification of Barriers and Sources

In this stage, the implementation of a program various constraints can arise. So that it can affect the program. Various constraints can include time, facilities, materials, etc. The source are also from organization, facilities, and funding.
5) Identification of Students Characteristics

This stage is the process of identifying students problem. It is because the main goal in designing a learning is to solve various problems faced by students.
6) Identification of Objectives

Identifying objectives is one of the important stage in the need analysis, because identfying objectives is a process of determining needs that are considered urgent to be resolved according to condition, because not all needs become goals.

## 7) Determine the Problem

This is the last stage in analysis process. it is writing a statement as a guide in the preparation of the intructional design process.

The steps for need analysis according to Morrison are as follows: ${ }^{31}$

1) Planning: what needs to be done; make a classification of students, who will be involved in the activities and how to collect them.
2) Data collection: need to consider the size of the sample in its distribution.
3) Data analysis: after the data has been collected, the data is analyzed with consideration such as economy, ranking, frequency, and needs.
4) Create a final report: in a need analysis report include four parts, they are objective analysis, process analysis, analysis of result with tables and brief description, recommendation related to the data.

There are six types of needs that are commonly used to plan and conduct need analysis: ${ }^{32}$

1) Normative needs

Comparing students with natioanal standards.
2) Comparative Needs

Comparing students in one group with other group with other groups at their level.
3) Current Needs

[^12]The desires of each students that need to be improved. This need shows the gap between the level of skill/reality that is visible and that is felt.
4) Needs Expressed

Needs that a person feels can be expressed in action.
5) Future Needs

Identify the changes that will occur in the future.
6) Urgent Incidental Needs

Negative factors that appear unexpectedly are very influential.
There are two fundamental distinctions in need analysis, both of them are target need and learning need. Target need is what the learners want to do in the target situation, and lerning need is what the learner need to do in order to learn. ${ }^{33}$

1) Target Need

There are three parts in target need: necessities, lacks, and wants.
a) Necessities: what the learners need to know to be effective in the target situation
b) Lacks: what the learner haven't know.
c) Wants: the learner's perception of the needs of target situation.

A target situation needs analysis is basically a problem of asking questions about the target situation and attitudes to that situation from various participants in the learning process.
2) Learning Need

The knowledge and abilities needed by students to be able to perform according to the level of competence required in the target

[^13]situation. This information can be recorded in terms of language items, skills, strategies, subject knowledge, etc.

## 3. The English Curriculum of IAIN Parepare

Table 2.1 The Curriculum of English Education

| Lectures |  |
| :--- | :--- |
| Pengantar Ilmu Pendidikan | Metodologi Penelitian Pendidikan |
| Psikologi Pendidikan | Teknologi Informasi |
| Pengembangan Kurikulum | Public Speaking |
| Filsafat Pendidikan | Edu-Enterpreneurship |
| Manajemen Pendidikan | Pocabulary |
| Strategi Pembelajaran | Literal Reading |
| Statistika Pendidikan | Literal Listening |
| Perencanaan Pembelajaran | Informative Speaking |
| Teknologi Pembelajaran | Upper Intermediate Structure |
| Etika Profesi Guru | Pronunciation |
| Bimbingan dan Konseling | Interpretive Reading |
| Evaluasi Pembelajaran | Introduction To Linguistic |
| Micro Teaching | Listening Comprehension |
| Language Testing | Intensive Speaking |
| English Teaching Methodology | Paragraph Writing |
| Ict In ELT | English Material Development |


| English Teacher Professionalism | Anvanced Structure |
| :--- | :--- |
| Media In ELT | Critical Reading |
| Ilmu Akidah | Translation |
| Ilmu Akhlak | Morphosintax |
| Ulumul Al-Quran | Sociolinguistics |
| Fiqhi Ibadah | Interactive Speaking |
| Ulumul Hadis | Essay Writing |
| Metodologi Studi Islam | Cross Cultural Understanding |
| Pancasila dan Kewarganegaraan | Interpreter |
| Bahasa Indonesia | Semantic |
| Bahasa Arab | English For Tourism |
| Academic Writing | English For Business |
| TOEFL/IELTS | English Literature |
| Teaching English as Foreign <br> Language (TEFL) | Methodology of English Research <br> (ESP) |
| Pendidikan Budaya Lokal | English For Banking |
| Pendidikan Anti Korupsi | Studi Budaya Lokal |

## 4. Need Analysis and Curriculum

Need analysis or need assesment in language teaching which includes elements of the language teaching curriculum which describes matters relating to need analysis, formulation of objectives, instruments and others. Need
analysis sees the target needs or in which the language will be used. ${ }^{34}$ Need analysis also tries to examine language teaching in more depth related to the language curriculum development perspective from various side. The main focus is how the form of language curriculum design can be described in terms of need analysis.

Mahardika stated that:
"The difference definitions and terms do not change the focus of the needs analysis those are students and the place they are going to work (target). In order to be a good telephone operator, the knowledge about the job's description, language functions, and language expressions of the job need to be identified. In order to identify the language function in a certain jobs, a needs analysis is needed. If needs are clear, the learning aims can be expressed more easily and the language course can become motivating. ${ }^{, 35}$

The need as something urgent in curriculum planning is closely related to curriculum development and learning. Needs in this concept are defined as actual circumtance (actual condition / situation being discussed) and envisional ideal circumtance (ideal and condition). In the other words, a difference between the real state and the ideal condition. ${ }^{36}$

This need analysis is carried out so that how to design procedures used to collect information about the needs of students. Without needs analysis, the good curriculum would be developed, but the appropriate needs would not be met. ${ }^{37}$

[^14]
## C. Conceptual Framework

The conceptual framework of this research is designed as follow:


Figure 2.1 Conceptual Framework of the Research

This study aims to describe the graduates demand on English education curriculum of State Islamic Institute (IAIN) Parepare by using a need analysis study. Finally it will show the graduates demand on English education curriculum of IAIN Parepare.

## CHAPTER III

## RESEARCH METHOD

This chapter is going to review the research design, population and sample, operational definition of variable, instrument of the research, technique of data collection and technique of data analysis.

## A. Research Design

This research was descriptive study with a survey method. Descriptive research simply describes a research situation, while this research was aimed to describe the graduates demand on English education curriculum.

Survey method was employed as a tool to obtain data. Survey is a study that uses a questionnaire as a research instrument. Survey research is a study that takes up to one population and uses questionnaires as a means of collecting basic data.

This research used survey method because itwas used to collect data or information about large populations using relatively small samples. The collection of survey data can be obtained by means of distribution of questionnaire. The distribution of this questionnaire is used because it can collect data in a relatively short time. ${ }^{38}$

## B. Population and Sample

1. Population

The population of this research was the graduates of English Education Program at IAIN Parepare. The total of the population of this study were 255 graduates. ${ }^{39}$

[^15]2. Sample

In this research, purposive sampling was used to determine the sample which mean that the population was selected with certain considerations. The number of samples can be done by using the Slovin formula as follows: ${ }^{40}$

$$
n=\frac{N}{1+N(e)^{2}}
$$

Where:

| n | $=$ Number of samples |
| :--- | :--- |
| N | $=$ Total population |
| e | $=$ Error tolerance |

The total population in this study were 255 graduates. Therefore, the error tolerance used was $10 \%$. Based on the Slovin formula above, the sample of this research was as follows:
$n=\frac{N}{1+N(e)^{2}}$
$n=\frac{255}{1+255(10 \%)^{2}}$
$n=\frac{255}{1+255(0,1)^{2}}$
$n=\frac{255}{1+255(0,01)}$
$n=\frac{255}{1+2,55}$

[^16]$n=\frac{255}{3,55}$
$n=71,8$
It shows that the number of the samples of this study were 72 graduates from 255 population.

## C. Operational Definition of Variable

1. Curriculum

Curriculum is the English curriculum that is used by English educationprogram of IAIN Parepare.

## 2. Graduates Demand

In this study, graduates means the English education program graduates while demand is the graduates need on the English education curriculum. It refers to Hutchinson's theory of target need that are necessities, lacks, and wants which states target need is what the learners want to do in the target situation. So this study aims to describe the graduates demand on English education curriculum of IAIN Parepare.

## D. Instrument of the Research

The research instrumen that was used in this study was questionnaire form. It was used tofind out the graduates demand on English education curriculum of IAIN Parepare. The form of questionnaire related to the aspects in the chapter II which aims to know the graduates needs on the curriculum.

## E. Technique of Data Collection

Based on the instrument above, the data collection procedures were follows:

1. Distributing questionnaire to the respondents to analyze the respondents answer towards English education curriculum of IAIN Parepare.
2. Collecting the result of the questionnaire.
3. Analyze the data from the questionnaire.
4. Drawing conclusion from the data analysis.

## F. Technique of Data Analysis

The data analysis technique used in this research was the percentage technique. Percentage analysis was used to see the frequency of respondents' answers and phenomena in the field. This step was also carried out to determine the size of the proportion of each answer to each question so that the data obtained would be easier to analyze. The percentage technique used in this study uses the following formula:

$$
P=\frac{F}{N} \times 100 \%
$$

Where:

$$
\mathrm{P}=\text { Percentage }
$$

F = Frequency of answer
$\mathrm{N}=$ Total number

## CHAPTER IV

## FINDINGS AND DISCUSSION

This chapter consists of two sections, the section deals with the finding and the discussion of the research. The findings cover the description of the data collected through the questionnaire that can be discussed in the section below.

## A. Findings

These findings contain graduates needs, lacks, and wants on English education curriculum at IAIN Parepare which are described and presented in table form. The data in the findings will be discussed in terms of comparison.

## 1. Necessities

This section contains data related to graduates' necessities on English education curriculum at IAIN Parepare which is divided into 8 subject categories, namely Teaching studies, English Skills, English Sub Skills, Linguistics, Islamic Studies, Culture, General Subjects, and Supporting Subjects.
a. Teaching Studies

Table 4.1 Graduates necessities on Teaching Studies

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SM | M | TM | STM |
| Pengantar Ilmu Pendidikan | $56,9 \%$ | $41,7 \%$ | $1,4 \%$ | - |
| Psikologi Pendidikan | $79,2 \%$ | $19,4 \%$ | $1,4 \%$ | - |
| Pengembangan Kurikulum | $79,2 \%$ | $19,4 \%$ | $1,4 \%$ | - |
| Filsafat Pendidikan | $29,2 \%$ | $58,3 \%$ | $11,1 \%$ | $1,4 \%$ |
| Manajemen Pendidikan | $58,3 \%$ | $38,9 \%$ | $2,8 \%$ | - |
| Strategi Pembelajaran | $93,1 \%$ | $5,6 \%$ | $1,4 \%$ | - |
| Statistika Pendidikan | $29,2 \%$ | $58,3 \%$ | $11,1 \%$ | $1,4 \%$ |


| Teknologi Pembelajaran | $75 \%$ | $23,6 \%$ | $1,4 \%$ | - |
| :--- | :---: | :---: | :---: | :---: |
| Perencanaan Pembelajaran | $80,6 \%$ | $13 \%$ | $1, \%$ | - |
| Etika Profesi Guru | $84,7 \%$ | $15,3 \%$ | - | - |
| Bimbingan Dan Konseling | $61,1 \%$ | $37,5 \%$ | $1,4 \%$ | - |
| Evaluasi Pembelajaran | $83,3 \%$ | $16,7 \%$ | - | - |
| Metodologi Penelitian <br> Pendidikan | $51,4 \%$ | $43,1 \%$ | $2,8 \%$ | $2,8 \%$ |
| Methodology of English <br> Research | $58,3 \%$ | $38,9 \%$ | $1,4 \%$ | $1,4 \%$ |
| Micro Teaching | $86,1 \%$ | $11,1 \%$ | $2,8 \%$ | - |
| Language Testing | $69,4 \%$ | $27,8 \%$ | $2,8 \%$ | - |
| English Teaching Methodology | $83,3 \%$ | $15,3 \%$ | $1,4 \%$ | - |
| Information and <br> Communication Technology <br> (ICT In ELT) | $62,5 \%$ | $36,1 \%$ | $1,4 \%$ | - |
| English Material Development | $83,3 \%$ | $15,3 \%$ | $1,4 \%$ | - |
| English Teacher <br> Professionalism | $79,2 \%$ | $19,4 \%$ | $1,4 \%$ | - |
| Media In ELT | $69,4 \%$ | $29,2 \%$ | $1,4 \%$ | - |
| English for Specific Purpose | $38,9 \%$ | $55,6 \%$ | $4,2 \%$ | $1,4 \%$ |
| Teaching English as Foreign <br> Language (TEFL) | $63,9 \%$ | $33,3 \%$ | $2,8 \%$ | - |

The highest percentage of the four category choices is very supportive category, the subject that has the highest percentage is learning strategy with a percentage of $93.1 \%$ with a very supportive category. Other subjects that have a fairly high percentage are courses that have a direct impact on the graduates' teaching ability as a teacher. Therefore, it can be concluded that the courses
most needed by graduates in the teaching studies category are subjects that are able to improve teaching skills.
b. English Skills

Table 4.2 Graduates necessities on English Skills

| Subjects |  | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  |  | M | TM | STM |  |
| Speaking | $97,2 \%$ | $2,8 \%$ | - | - |  |
| Listening | $87,5 \%$ | $12,5 \%$ | - | - |  |
| Writing | $88,9 \%$ | $11,1 \%$ | - | - |  |
| Listening | $91,7 \%$ | $8,3 \%$ | - | - |  |

The highest percentage of the four category choices is very supportive category. In the table above, the courses that have the highest percentage are speaking subjects with a percentage of $97.2 \%$ and the subjects that have the lowest percentages are listening with a percentage of $87.5 \%$ in the very supportive category. Therefore, it can be explained that the category of English skills courses is very needed by graduates.
c. English Sub Skill

Table 4.3 Graduates necessities on English Sub Skill

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SM | M | TM | STM |
| Vocabulary | $97,2 \%$ | $2,8 \%$ | - | - |
| Pronunciation | $93,1 \%$ | $6,9 \%$ | - | - |
| Grammar | $79,2 \%$ | $19,4 \%$ | $1,4 \%$ | - |

The highest percentage of the four category choices is very supportive category. The courses that have the highest percentage are vocabulary courses at $97.2 \%$ in the very supportive category and there are only $1.4 \%$ graduates
who choose the unsupportive category in grammar courses. It can be explained that this category of English sub skills is needed by graduates.
d. Linguistics

Table 4.4 Graduates necessities on Linguistics

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SM | M | TM | STM |
| Introduction to Linguistics | $45,8 \%$ | $51,4 \%$ | $2,8 \%$ | - |
| Phonology | $52,8 \%$ | $44,4 \%$ | $2,8 \%$ | - |
| Morphology | $47,2 \%$ | $44,4 \%$ | $6,9 \%$ | $1,4 \%$ |
| Syntax | $47,2 \%$ | $45,8 \%$ | $5,6 \%$ | $1,4 \%$ |
| Semantics | $44,4 \%$ | $47,2 \%$ | $6,9 \%$ | $1,4 \%$ |
| Pragmatics | $34,7 \%$ | $52,8 \%$ | $11,1 \%$ | $1,4 \%$ |
| Psycholinguistics | $47,2 \%$ | $47,2 \%$ | 5,6 | - |
| Sociolinguistics | $44,4 \%$ | $47,2 \%$ | $6,9 \%$ | $1,4 \%$ |

The highest percentage of the four category choices is very supportive category while the others categories are low. Such as, the category of not supportive and not very supportive. The highest percentage is in the supportive category of $52.8 \%$. However, this shows that the number of graduates who choose courses in the linguistics category is only half of the number of respondents.
e. Islamic Studies

Table 4.5 Graduates necessities on Islamic Studies

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SM | M | TM | STM |
| Ilmu Akidah | $65,3 \%$ | $30,6 \%$ | $2,8 \%$ | $1,4 \%$ |
| Ilmu Akhlak | $76,4 \%$ | $23,6 \%$ | - | - |


| Ulumul Al-Quran | $50 \%$ | $41,7 \%$ | $6,9 \%$ | $1,4 \%$ |
| :--- | :---: | :---: | :---: | :---: |
| Fiqhi Ibadah | $50 \%$ | $44,4 \%$ | $4,2 \%$ | $1,4 \%$ |
| Ulumul Hadis | $36,1 \%$ | $50 \%$ | $12,5 \%$ | $1,4 \%$ |
| Metodologi Studi Islam | $40,3 \%$ | $48,6 \%$ | $9,7 \%$ | $1,4 \%$ |

The highest percentage of the four category choices is very supportive category. The subject with the highest percentage is Ilmu Akhlak with a percentage of $76.4 \%$ in the very supportive category. The table above shows that courses related to morals or behavior are needed by graduates as teachers.

## f. Culture

Table 4.6 Graduates necessities on Culture

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SM | M | TM | STM |
| Cross Cultural Understanding | $52,8 \%$ | $37,5 \%$ | $9,7 \%$ | - |
| Studi Budaya Lokal | $43,1 \%$ | $47,2 \%$ | $9,7 \%$ | - |
| Pendidikan Budaya Lokal | $38,9 \%$ | $50 \%$ | $9,7 \%$ | $1,4 \%$ |

The highest percentage of the four category choices is very supportive category. The course with the highest percentage is Cross Cultural Understanding at $52.8 \%$ in the Very Supporting category and the lowest percentage is Pendidikan Budaya Lokal in the very unsupportive category. This data shows that the graduates need for courses in the culture category is not too high.
g. General Subjects

Table 4.7 Graduates necessities on General Subjects

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SM | M | TM | STM |
| Pendidikan Anti Korupsi | $30,6 \%$ | $55,6 \%$ | $12,5 \%$ | $1,4 \%$ |
| Pancasila dan <br> Kewarganegaraan | $48,6 \%$ | $43,1 \%$ | $4,2 \%$ | $4,2 \%$ |
| Bahasa Indonesia | $54,2 \%$ | $41,7 \%$ | $1,4 \%$ | $2,8 \%$ |
| Bahasa Arab | $26,4 \%$ | $45,8 \%$ | $25 \%$ | $2,8 \%$ |
| Teknologi Informasi | $70.8 \%$ | $23.6 \%$ | $5.6 \%$ | - |
| Public Speaking | $84.7 \%$ | $15.3 \%$ | - | - |

The highest percentage of the four category choices is very supportive category. The courses with the highest percentage are Public Speaking courses at $84.7 \%$ in the very supportive category. The data above also shows that there are several courses that are not very supportive of graduate careers as teachers. That means that the courses that are needed by graduates in the General Subject category are Public Speaking and Information Technology courses.
h. Supporting Subjects

Table 4.8 Graduates necessities on Supporting Subjects

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SM | M | TM | STM |
| TOEFL/IELTS | $75 \%$ | $19.4 \%$ | $5.6 \%$ | - |
| English For Banking | $13.9 \%$ | $45.8 \%$ | $37.5 \%$ | $2.8 \%$ |
| English For Tourism | $36.1 \%$ | $44.4 \%$ | $18.1 \%$ | $1.4 \%$ |
| English For Business | $23.6 \%$ | $51.4 \%$ | 23.6 | $1.4 \%$ |
| English Literature | $44.4 \%$ | $45.8 \%$ | $9.7 \%$ | - |


| Translation | $65.3 \%$ | $34.7 \%$ | - | - |
| :--- | :---: | :---: | :---: | :---: |
| Edu-Enterpreneurship | $27.8 \%$ | $55.6 \%$ | $13.9 \%$ | $2.8 \%$ |

The highest percentage of the four category choices is supportive category, the courses that are really needed by graduates are TOEFL courses with a percentage of $75 \%$ in the very supportive category. In this category of supporting subjects, the courses related to English for Specific Purpose are not really needed by graduates.

## 2. Lacks

This section contains data related to graduates' lacks on English education curriculum at IAIN Parepare which is divided into 8 subject categories, namely Teaching studies, English Skills, English Sub Skills, Linguistics, Islamic Studies, Culture, General Subjects, and Supporting Subjects.
a. Teaching Studies

Table 4.9 Graduates Lacks on Teaching Studies

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SP | P | TP | STP |
| Pengantar Ilmu Pendidikan | $43.1 \%$ | $45.8 \%$ | $11.1 \%$ | - |
| Psikologi Pendidikan | $58.3 \%$ | $37.5 \%$ | $4.2 \%$ | - |
| Pengembangan Kurikulum | $58.3 \%$ | $34.7 \%$ | $5.6 \%$ | $1.4 \%$ |
| Filsafat Pendidikan | $19.4 \%$ | $55.6 \%$ | $23.6 \%$ | $1.4 \%$ |
| Manajemen Pendidikan | $45.8 \%$ | $50 \%$ | $4.2 \%$ | - |
| Strategi Pembelajaran | $75 \%$ | $20.8 \%$ | $4.2 \%$ | - |
| Statistika Pendidikan | $29.2 \%$ | $50 \%$ | $19.4 \%$ | $1.4 \%$ |
| Teknologi Pembelajaran | $66.7 \%$ | $31.9 \%$ | $1.4 \%$ | - |
| Perencanaan Pembelajaran | $75 \%$ | $22.2 \%$ | $2.8 \%$ | - |


| Etika Profesi Guru | $72.2 \%$ | $25 \%$ | $1.4 \%$ | $1.4 \%$ |
| :--- | :---: | :---: | :---: | :---: |
| Bimbingan Dan Konseling | $54.2 \%$ | $40.3 \%$ | $5.6 \%$ | - |
| Evaluasi Pembelajaran | $70.8 \%$ | $27.8 \%$ | $1.4 \%$ | - |
| Metodologi Penelitian Pendidikan | $43.1 \%$ | $44.4 \%$ | $11.1 \%$ | $1.4 \%$ |
| Methodology of English Research | $45.8 \%$ | $41.7 \%$ | $11.1 \%$ | $1.4 \%$ |
| Micro Teaching | $73.6 \%$ | $20.8 \%$ | $5.6 \%$ | - |
| Language Testing | $62.5 \%$ | $29.2 \%$ | $8.3 \%$ | - |
| English Teaching Methodology | $65.3 \%$ | $30.6 \%$ | $4.2 \%$ | - |
| Information and Communication | $54.2 \%$ | $38.9 \%$ | $6.9 \%$ | - |
| Technology (ICT In ELT) | $68.1 \%$ | $29.2 \%$ | $2.8 \%$ | - |
| English Material Development | $61.1 \%$ | $34.7 \%$ | $4.2 \%$ | - |
| English Teacher Professionalism | $61.1 \%$ | $36.1 \%$ | $2.8 \%$ | - |
| Media In ELT | $41.7 \%$ | $50 \%$ | $6.9 \%$ | $1.4 \%$ |
| English for Specific Purpose | $54.2 \%$ | $37.5 \%$ | $8.3 \%$ | - |
| Teaching English as Foreign <br> Language (TEFL) |  |  |  |  |

The courses with the highest percentage are Strategi Pembelajaran at $75 \%$ in the high necessary category. The data above also shows that most Graduates choose courses that support their teaching abilities as teachers. This can be explained that graduates still feel lacking in these subjects and still need to be studied.
b. English Skills

Table 4.10 Graduates Lacks on English Skills

| Subjects |  | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  |  | SP | P | TP |  |
| STP |  |  |  |  |
| Speaking | $68.1 \%$ | $30.6 \%$ | $1.4 \%$ | - |  |


| Listening | $62.5 \%$ | $34.7 \%$ | $2.8 \%$ | - |
| :--- | :---: | :---: | :---: | :---: |
| Writing | $68.1 \%$ | $27.8 \%$ | $2.8 \%$ | $1.4 \%$ |
| Reading | $72.2 \%$ | $26.4 \%$ | $1.4 \%$ | - |

The average answer for choosing the highly necessary category with the highest percentage is in the Reading course at $72.2 \%$. This data shows that graduates still need to improve their reading skills. From the data above, it can also be seen that there is a comparison between the high necessary and necessary categories, it can be explained that the ability in the English Skills category still needs to be improved.

## c. English Sub Skills

Table 4.11 Graduates Lacks on English Sub Skills

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SP | P | TP | STP |
| Vocabulary | $70.8 \%$ | $26.4 \%$ | $2.8 \%$ | - |
| Pronunciation | $68.1 \%$ | $26.4 \%$ | $5.6 \%$ | - |
| Grammar | $41.7 \%$ | $43.1 \%$ | $15.3 \%$ | - |

The vocabulary courses have the highest percentage of $70.8 \%$. Therefore, the subject in the English sub skills category is a subject that really needs to be developed to support the careers of graduates as teachers.

## d. Linguistics

Table 4.12 Graduates Lacks on Linguistics

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SP | P | TP | STP |
| Introduction to Linguistics | $44.4 \%$ | $43.1 \%$ | $12.5 \%$ | - |
| Phonology | $40.3 \%$ | $44.4 \%$ | $13.9 \%$ | $1.4 \%$ |


| Morphology | $37.5 \%$ | $50 \%$ | $11.1 \%$ | $1.4 \%$ |
| :--- | :---: | :---: | :---: | :---: |
| Syntax | $38.9 \%$ | $48.6 \%$ | $11.1 \%$ | $1.4 \%$ |
| Semantics | $33.3 \%$ | $50 \%$ | $15.3 \%$ | $1.4 \%$ |
| Pragmatics | $41.7 \%$ | $48.6 \%$ | $9.7 \%$ | - |
| Psycholinguistics | $43.1 \%$ | $44.4 \%$ | $11.1 \%$ | $1.4 \%$ |
| Sociolinguistics | $47.2 \%$ | $40.3 \%$ | $12.5 \%$ | - |

The subjects with the highest percentage are Morphology and Semantics at $50 \%$ in the necessary category. This data shows that the linguistics category courses are not really needed by graduates to be developed to support their careers. This is evidenced by the percentage of respondents' answers which only reach half of the number of respondents used.
e. Islamic Studies

Table 4.13 Graduates Lacks on Islamic Studies

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SP | P | TP | STP |
| Ilmu Akidah | $54.2 \%$ | $40.2 \%$ | $5.6 \%$ | - |
| Ilmu Akhlak | $36.1 \%$ | $47.2 \%$ | $13.9 \%$ | $2.8 \%$ |
| Ulumul Al-Quran | $43.1 \%$ | $44.4 \%$ | $8.3 \%$ | $4.2 \%$ |
| Fiqhi Ibadah | $26.4 \%$ | $48.6 \%$ | $22.2 \%$ | $2.8 \%$ |
| Ulumul Hadis | $34.7 \%$ | $44.4 \%$ | $18.1 \%$ | $2.8 \%$ |
| Metodologi Studi Islam | $43.1 \%$ | $40.3 \%$ | $15.3 \%$ | $1.4 \%$ |

The subject Ilmu Akidah has the highest percentage of $54.2 \%$ in the high necessary category. However, the data above shows that the average choice of answers in the category is necessary. Many graduates also chose the unnecessary category with the highest percentage of $22.2 \%$. It can be
explained that graduates simply need courses in the Islamic studies category to be developed.
f. Culture

Table 4.14 Graduates Lacks on Culture

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SP | P | TP | STP |
| Cross Cultural Understanding | $33.3 \%$ | $47.2 \%$ | $19.4 \%$ | - |
| Studi Budaya Lokal | $33.3 \%$ | $48.6 \%$ | $16.7 \%$ | $1.4 \%$ |
| Pendidikan Budaya Lokal | $34.7 \%$ | $48.6 \%$ | $13.9 \%$ | $2.8 \%$ |

The average of graduates answer is in the necessary category with the largest percentage being $48.6 \%$. This states that the category of culture courses does not really need to be developed to support graduate careers as teachers. This is supported by data showing that the percentage in the unnecessary category is quite high.

## g. General Subjects

Table 4.15 Graduates Lacks on General Subjects

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SP | P | TP | STP |
| Pendidikan Anti Korupsi | $43.1 \%$ | $45.8 \%$ | $6.9 \%$ | $4.2 \%$ |
| Pancasila dan Kewarganegaraan | $43.1 \%$ | $43.1 \%$ | $11.1 \%$ | $2.8 \%$ |
| Bahasa Indonesia | $22.2 \%$ | $48.6 \%$ | $26.4 \%$ | $2.8 \%$ |
| Bahasa Arab | $54.2 \%$ | $43.1 \%$ | $2.8 \%$ | - |
| Teknologi Informasi | $68.1 \%$ | $26.4 \%$ | $5.6 \%$ | - |
| Public Speaking | $66.7 \%$ | $27.8 \%$ | $5.6 \%$ | - |

The majority of graduates chose Information Technology and Public speaking courses with $68.1 \%$ and $66.7 \%$ respectively in the very necessary category. This states that this course really needs to be developed as a support for graduate careers as teachers. Meanwhile, subjects that do not have a large impact on teaching abilities as a teacher have a fairly low percentage.
h. Supporting Subjects

Table 4.16 Graduates Lacks on Supporting Subjects

| Subjects | Percentage |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | SP | P | TP | STP |
| TOEFL/IELTS | $20.8 \%$ | $33.3 \%$ | $41.7 \%$ | $4.2 \%$ |
| English For Banking | $36.1 \%$ | $38.9 \%$ | $23.6 \%$ | $1.4 \%$ |
| English For Tourism | $37.5 \%$ | $36.1 \%$ | $25 \%$ | $1.4 \%$ |
| English For Business | $34.7 \%$ | $36.1 \%$ | $25 \%$ | $1.4 \%$ |
| English Literature | $34.7 \%$ | $51.4 \%$ | $12.5 \%$ | $1.4 \%$ |
| Translation | $58.3 \%$ | $38.9 \%$ | $2.8 \%$ | - |
| Edu-Enterpreneurship | $30.6 \%$ | $45.8 \%$ | $20.8 \%$ | $2.8 \%$ |

The courses that are considered to still need to be developed to support a teacher's career are Translation courses with a percentage of $58.3 \%$. Other courses that are still considered necessary to be developed are English literature courses with a percentage of $51.4 \%$. This shows that this course is considered very necessary to be developed for most graduates.
i. The Aspects to be Developed

Table 4.17 The Aspects to be Developed

| Aspects | Percentage |
| :--- | :---: |
| The curriculum is not oriented to the needs of graduates | $27,8 \%$ |
| Curriculum content is not up to date | $36,1 \%$ |


| Inflexible and not varied | $27,8 \%$ |
| :--- | :---: |
| Evaluation is not done well | $44,4 \%$ |
| The curriculum is not able to improve students' abilities | $31,9 \%$ |
| The duration of each course is still less | $23,6 \%$ |

There are some aspects that need to be developed in order to meet the graduates demand on English education curriculum. The high percentage is 44,4\% with the aspect of evaluation of the curriculum is not done well and also the curriculum content is not up to date with the percentage $36,1 \%$.

## 3. Wants

This section contains data related to graduates wants on English education curriculum at IAIN Parepare which is divided into 8 subject categories, namely Teaching studies, English Skills, English Sub Skills, Linguistics, Islamic Studies, Culture, General Subjects, and Supporting Subjects.
a. Teaching Studies

Table 4.18 Graduates Wants on Teaching Studies

| Subjects | Percentage |
| :--- | :---: |
| Pengantar Ilmu Pendidikan | $47,2 \%$ |
| Psikologi Pendidikan | $55,6 \%$ |
| Pengembangan Kurikulum | $50 \%$ |
| Filsafat Pendidikan | $30,6 \%$ |
| Manajemen Pendidikan | $41,7 \%$ |
| Strategi Pembelajaran | $56,9 \%$ |
| Statistika Pendidikan | $34,7 \%$ |
| Teknologi Pembelajaran | $55,6 \%$ |
| Perencanaan Pembelajaran | $56,9 \%$ |
| Etika Profesi Guru | $61,1 \%$ |


| Bimbingan dan Konseling | $43,1 \%$ |
| :--- | :---: |
| Evaluasi Pembelajaran | $52,8 \%$ |
| Metodologi Penelitian Pendidikan | $43,1 \%$ |
| Methodology of English Research | $43,1 \%$ |
| Micro Teaching | $59,7 \%$ |
| Language Testing | $50 \%$ |
| English Teaching Methodology | $45,8 \%$ |
| Information and Communication Technology <br> (ICT In ELT) | $43,1 \%$ |
| English Material Development | $51,4 \%$ |
| English Teacher Professionalism | $54,2 \%$ |
| Media In ELT | $55,6 \%$ |
| English for Specific Purpose | $43,1 \%$ |
| Teaching English as Foreign Language (TEFL) | $51,4 \%$ |

The highest percentage is in the Etika Profesi Guru course with a percentage of $61.1 \%$ and the lowest percentage is in the Filsafat Pendidikan course with a percentage of $30.6 \%$. The data shows the percentage of graduates' desire for the course. In the table above, it can be seen that the percentage of subjects related to teaching ability has a higher percentage.

## b. English Skills

Table 4.19 Graduates Wants on English Skills

| Subjects | Percentage |
| :--- | :---: |
| Speaking | $90,3 \%$ |
| Listening | $76,4 \%$ |
| Writing | $72,2 \%$ |


| Reading | $66,7 \%$ |
| :--- | :--- |

The highest percentage is $90.3 \%$ in the Speaking course and the lowest percentage is $66.7 \%$ in the Reading course. It states that the percentage of graduates' desire for courses in the English Skill category is above average. Therefore, it can be explained that graduates want all of these courses to be included in the curriculum.

## c. English Sub Skills

Table 4.20 Graduates Wants on English Sub Skills

| Subjects | Percentage |
| :--- | :---: |
| Vocabulary | $70,8 \%$ |
| Pronunciation | $86,1 \%$ |
| Grammar | $72,2 \%$ |

The highest percentage is in the Pronunciation course with a percentage of $86.1 \%$ and the lowest percentage is in the Vocabulary course, which is $70.8 \%$. The data states that the level of desire of graduates in the English Sub Skills subject category can be categorized as high.
d. Linguistics

Table 4.21 Graduates Wants on Linguistics

| Subjects | Percentage |
| :--- | :---: |
| Introduction to Linguistics | $62,5 \%$ |
| Phonology | $65,3 \%$ |
| Morphology | $40,6 \%$ |
| Syntax | $59,7 \%$ |
| Semantics | $54,2 \%$ |
| Pragmatics | $48,6 \%$ |


| Psycholinguistics | $55,6 \%$ |
| :--- | :--- |
| Sociolinguistics | $56,9 \%$ |

The highest percentage is $65.3 \%$ in the Phonology course and the lowest percentage is $40.6 \%$ in the Morphology course. These data indicate that the level of desire of graduates in the Linguistics course category is quite low compared to other subject categories.
e. Islamic Studies

Table 4.22 Graduates Wants on Islamic Studies

| Subjects | Percentage |
| :--- | :---: |
| Ilmu Akidah | $62,5 \%$ |
| Ilmu Akhlak | $70,8 \%$ |
| Ulumul Al-Quran | $56,9 \%$ |
| Fiqhi Ibadah | $55,6 \%$ |
| Ulumul Hadis | $43,1 \%$ |
| Metodologi Studi Islam | $58,3 \%$ |

The highest percentage is $70.8 \%$ in the Ilmu Akhlak course and the lowest percentage is in the Ulumul Hadis course, which is $43.1 \%$. The data above shows that courses related to morality and faith are desired by graduates to be included in the curriculum. It states that the percentage of graduates' desire for courses in the Islamic Studies category is quite high.

## f. Culture

Table 4.23 Graduates Wants on Culture

| Subjects | Percentage |
| :--- | :---: |
| Cross Cultural Understanding | $68,1 \%$ |
| Studi Budaya Lokal | $68,1 \%$ |


| Pendidikan Budaya Lokal | $65,3 \%$ |
| :--- | :--- |

The highest percentage is $68.1 \%$ and the lowest percentage is $65.3 \%$. It stated that more than half of the respondents wanted courses in the Culture category.
g. General Subjects

Table 4.24 Graduates Wants on General Subjects

| Subjects | Percentage |
| :--- | :---: |
| Pendidikan Anti Korupsi | $56,9 \%$ |
| Pancasila dan Kewarganegaraan | $52,8 \%$ |
| Bahasa Indonesia | $51,4 \%$ |
| Bahasa Arab | $38,9 \%$ |
| Teknologi Informasi | $73,6 \%$ |
| Public Speaking | $79,2 \%$ |

The highest percentage is $79.2 \%$ in the Public Speaking course and the lowest percentage is $38.9 \%$ in the Arabic language course. From the table above, it can be seen that the percentage of courses that support graduates' teaching abilities is much higher than other general courses. Therefore, it can be said that graduates want courses that are able to support their careers as teachers.
h. Supporting Subjects

Table 4.25 Graduates Wants on Supporting Subjects

| Subjects | Percentage |
| :--- | :---: |
| TOEFL/IELTS | $79,2 \%$ |
| English For Banking | $29,2 \%$ |
| English For Tourism | $50 \%$ |


| English For Business | $45,8 \%$ |
| :--- | :--- |
| English Literature | $56,9 \%$ |
| Translation | $63,9 \%$ |
| Edu-Enterpreneurship | $41,7 \%$ |

The highest percentage in the table above is $79.2 \%$ in the TOEFL course and the lowest percentage is $29.2 \%$ in the English for Banking course. From the data above, it shows that courses that are not related to the profession of a teacher have a low percentage so that the level of graduates desire for these courses can be said as low.

## B. Discussion

This section provides the discussion about the findings that have been showed in the previous section. The discussion of the research provides insight about the graduates necessities, lacks and wants on English education curriculum at IAIN Parepare.

## 1. Graduates necessities on English education curriculum at IAIN

## Parepare

Discussing the necessities, this research explains the level of the students need on the curriculum for the 8 researched subjects. The data shows that the most demanded subjects are in English Skills and English Sub Skills category. In the part of Teaching Studies, the highest demand comes from Strategi Pembelajaran subject with the percentage $93,1 \%$. The description of the data collected that explained in the previous section shows the level of student need for subjects that is having impact to the teaching ability in the category of teaching studies have a high rate of percentage of necessity compared to other subjects such as Filsafat Pendidikan, Statistika Pendidikan, and English for Specific Purpose. This could be due to the fact that most of
the respondents who answered the questionnaire were teachers. Therefore, the level of graduates need for this course is still very low.

Meanwhile, subjects in the English Skills and English Sub Skills categories have a very high percentage. This shows that the level of graduates need for this subject category is very high. This can happen because this course has a huge impact on the teaching ability of a teacher. This is supported by the fact that an English teacher must have 4 English skills, namely Speaking, Listening, Writing and Reading. Other abilities such as mastery of vocabulary, pronunciation and grammar must also be supported.

In the category of linguistics courses, it can be seen that the level of graduates needs in these courses is considered still lacking because the percentage of answers is below $50 \%$. This could be because the focus of the discussion in this linguistics course is how to analyze the use of language related to non-language aspects such as those that are the focus of language and literature (stylistics), language and society (sociolinguistics), as well as language and the nervous system. (neurolinguistics). ${ }^{41}$

This is different from courses in the Islamic studies category. In this category, courses related to morality have a high percentage, this shows that graduates need these courses compared to other courses in this category. This shows that a teacher must have good morals because they are role models for students. As stated by Sy. Rohana stated that if the teacher has noble character, then a teacher will be a role model for his students, because teaching must be by exemplary and good morals. ${ }^{42}$

In the culture subject category, respondents chose two categories, namely very supportive and supportive. This data shows that the level of need

[^17]for this course is not so urgent. It is also supported by the data that the course with the highest percentage is Cross Cultural Understanding at $52.8 \%$ in the Very Supporting category and the lowest percentage is Pendidikan Budaya Lokal in the very unsupportive category. This data shows that the graduates need for courses in the culture category is not too high.

The categories of general subjects and supporting subjects show that the subjects that have a high percentage are only Information Technology, Public Speaking, TOEFL, and Translation courses. This can be due to the digital era that requires everyone to be able to take advantage of technology. In addition, practical skills such as public speaking are also needed at this time, especially for a teacher who should have good public speaking skills. Courses such as TOEFL are also needed by graduates. This could be due to the fact that many institutions have made the TOEFL as one of the requirements to apply for a job. In addition, translation courses also have a high percentage when compared to other courses such as specific purposeoriented courses.

## 2. Graduates lacks on English education curriculum at IAIN Parepare

In the previous session, the category of teaching studies courses showed that most of the courses had a high percentage. This states that this course needs to be developed as a career support for a teacher because it directly has an impact on a teacher's teaching ability. Meanwhile, subjects such as Philosophy of Education and Education statistics have a low percentage. This shows that this course is not too urgent for graduates. Therefore, it can be said that the greater the percentage of courses in the necessary category, the more these courses are considered less and need to be developed.

The categories of English Skill and English Sub Skill courses have a high percentage for each type of subject. It is undeniable that the majority of
graduates who work as teachers need these skills for their careers. Therefore, based on existing data, the courses in the English Skill and English Sub Skill categories are very necessary to be developed.

In the linguistics course, the majority of respondents chose the Necessary category when compared to the other three categories. This can be caused because this course is not considered too urgent to be used in learning at school because the focus of the discussion in this linguistics course is how to analyze the use of language related to non-language aspects.

Meanwhile, for courses in the Islamic Studies category, the majority of answers lead to the Necessary category. This shows that this course has been assessed as sufficient but still needs to be developed, especially in the subjects of Ilmu Akidah dan Ilmu Akhlak.

As well as the courses with the Culture category, the majority of answers refer to the Need category and not a few answers choose the Unnecessary category. This could be because this local culture has been known for a long time by each individual through daily life so that it is not too urgent to be developed in the curriculum.

In the category of General subjects and Supporting subjects, the subjects chosen by the majority of respondents are subjects that have a direct impact on their career as a teacher, especially an English teacher. The subjects are Information Technology, Public Speaking and Translation. This could be because practical skills such as utilizing technology and public speaking skills are very urgent to know. While other courses are more in the Necessary and Not Necessary categories. This shows that the course is considered not too urgent to be developed and included in the curriculum.

## 3. Graduates wants on English education curriculum at IAIN Parepare

In this section, we can see the level of desire of graduates towards the 8 categories of existing courses. In the first category, it can be seen that the
highest percentage of courses is $61.1 \%$, namely the Teacher Professional Ethics course. When viewed from the overall course, it is highly desirable to include courses that are directly related and have a big impact on teachers. Meanwhile, subjects such as philosophy have a very low percentage. It states that the level of student interest in philosophy and statistics courses is very low. This can happen because this course is not used in the teaching and learning process in schools.

The level of desire of graduates in courses with a very high percentage can be seen in courses with the categories of English Skills, English Sub Skills, this is because the content of these courses should be mastered by English teachers. Therefore, the percentage is very high.

Other subject categories such as linguistics, Islamic Studies and Culture also have a fairly high percentage. This shows that the level of graduate desire for these courses is quite high. Meanwhile, the General Subjects and Supporting subjects also have a fairly high percentage. However, there are some courses with very low percentages such as Arabic, English for Banking course. This can be due to the participants were a teacher and need others supporting courses that they need in the English learning process.

In addition, every subject is certainly wanted by graduates, but the percentage of these courses varies and showed the grade of graduates' wants on the provided courses.

## CHAPTER V CONCLUSION AND SUGGESTION

## A. Conclusion

After conducting the research and analyze the data, the conclusion of this research is drawn in the three following points:

1. The graduates necessities on English education curriculum are courses that have a direct impact on their teaching abilities. So that what has been learned can be applied directly in the teaching and learning process.
2. The graduates lacks on English curriculum shows that the courses that are considered lacking and need to be developed are practical courses that are able to support a career as a teacher. The aspect that is considered to be lacking is the aspect of curriculum evaluation which is considered to be still not good. In addition, the curriculum content is considered less up to date so it still needs to be developed to be even better.
3. The graduates wants on english education curriculum, it shows that most of the courses that graduates want and are expected to include in the curriculum are subjects with English Skills and English Sub Skills categories with an average percentage above $70 \%$. This is because these courses are mandatory for an English teacher to have. But basically every subject in the curriculum has a fairly large percentage and it can be said that graduates want it to be in the curriculum. However the courses that have a high percentage are in the category of English Skills and English Sub Skills courses.

## B. Suggestion

## 1. For the Curriculum Maker

The researcher gives advice to curriculum makers to consider the courses included in the curriculum. The courses included should have a major
impact on a teacher's teaching ability. The curriculum should also have up-todate content and be well evaluated. So that each existing course can be adapted to the needs of students.

## 2. For the Other Researchers

In this study, the researcher only used survey and used a questionnaire in collecting data to see the needs, lacks and want of the graduates on the English education curriculum. Therefore, the researcher suggests for other researchers to use the mix method so that the data collected is not only seen from a statistical point of view but also from a descriptive perspective. So that the results of research related to this curriculum can make a better contribution.

## BIBLIOGRAPHY

Ahmad, Djuwairiah, Faculty Education, Teacher Training, Universitas Islam, and Negeri Uin. "Meeting the Students' Expectations: Evaluating the Implementation of English Language Teaching Curriculum." İlköğretim Online 20, no. 3 (2021): 165-76. https://doi.org/10.17051/ilkonline.2021.03.16.

Alsub clare, Maerfat A. "Teacher Involvement in Curriculum Development." Journal of Education and Practice 7, no. 9 (2016): 106-7.

Common, Dianne L., and David Pratt. "Curriculum: Design and Development." Canadian Journal of Education / Revue Canadienne de l'éducation 6, no. 4 (1981): 122. https://doi.org/10.2307/1494364.

Fitri, Agus Zaenul. Manajemen Kurikulum Pendidikan Islam dari Normatif-Filosofis ke Praktis. Bandung: Alfabeta. 2013.

Hamalik, Oemar. Manajemen Pengembangan Kurikulum, Bandung: Remaja Rosdakarya. 2010

Hamid, Hamdani. Pengembangan Kurikulum Pendidikan Bandung: Pustaka Setia. 2012.

Jan, Van Den Akker, Boer Wim De, Folmer Elvira, Kuiper Wilmad, Letschert Jos, Nieveen Nienke, Thijs Annette, and Benamirouche Ria. "Curriculum in Development SLO • Netherlands Institute for Curriculum Development," 2009, 57. www.slo.nl.

Kwarteng, Joseph A., and Samuel Akuamoah Boateng. "Mid-Career Extension Graduates' Perceptions of the Impact of a Demand-Driven, Extension Curriculum in Ghana." Australian Journal of Adult Learning 52, no. 2 (2012): 257-76.

Mahardika, A.A Ngurah Yudha Martin. "The Need for Needs Analysis in Curriculum Development in ESP Course: A Reflection on Curriculum Development in Indonesia." Lingua Scientia 6, no. 2 (2014): 183-94.

Morisson, Gary. et. al. Designing Effective Instruction. Third Edition John Willey and Sons, inc printed in the USA. 2001.

Namaziandost, Ehsan. "Process of Language Curriculum Development." Addaiyan Journal of Arts, Humanities and Social Sciences 1, no. 8 (2019): 61-70. https://doi.org/10.36099/ajahss.1.8.5.

Prihantoro, C. Rudy. "The Perspective of Curriculum in Indonesia on Environmental Education." International Journal of Research Studies in Education 4, no. 1 (2014): 77-83. https://doi.org/10.5861/ijrse.2014.915.

Richards, Jack C. "Curriculum Approaches in Language Teaching: Forward, Central, and Backward Design." RELC Journal 44, no. 1 (2013): 5-33. https://doi.org/10.1177/0033688212473293.

Rochmahwati, Pryla. English Curriculum and Material Developments. Ponorogo: STAIN Po Press. 2017.

Rohana, Sy. Urgensi Akhlak Seorang Pendidik. Bidayah: Studi Ilimu-Ilmu Keislaman. 2018.

Rohman, Abdul. "Pengembangan Kurikulum Teori dan Praktek. (Semarang: CV Karya Abadi Jaya. 2015.

Sanjaya, Wina. Perencanaan dan Desain Sistem Pembelajaran. Jakarta: Kencana Group. 2008.

Seels, B. \& Glasgow, Z.Exsercise in intructional Technology. Colombus OH: Merrill Publishing Co. 1990.

Soetopo and Soemanto. Pembinaan dan Pengembangan Kurikulum Sebagai Substansi Problem Administrasi Pendidikan. Jakarta: Bumi Aksara. 1993.

Songhori, Mehdi. "Introduction to Needs Analysis." English for Specific Purposes World 4, no. 4 (2008): 1-25.

Soto, Sandy T. "An Analysis of Curriculum Development." Theory and Practice in Language Studies 5, no. 6 (2015): 1129. https://doi.org/10.17507/tpls.0506.02.

Sulistyani, Ummi Nur Laila. "The Importance of Needs Analysis in a Language Curriculum Development: An Evaluation to 2013 Curriculum." UHAMKA International Conference on ELT and CALL (UICELL), no. November (2018): 143-52.

Sugiyono. Metode Penelitian Kuantitatif, Kualitatif, dan $R \& D$. Bandung: CV. Alfabeta. 2015

Sukmadinata, N. S. Metode Penelitian Pendidikan. Bandung: PT. Remaja Rosdakarya. 2008.

Suparlan. Tanya Jawab Pengembangan Kurikulum dan Materi Pembelajaran. Jakarta: PT. Rosda Karya Remaja. 2011.

Tom Hutchinson and Water A. English for Specific Purposes. Cambridge: New York. 1987.

Tsou, Wenli. "Needs-Based Curriculum Development: A Case Study of NCKU's ESP Program." Taiwan International ESP Journal 1, no. 1 (2009): 77-95.

Widianingsih, Betti, and Rostika Listyaningrum. "A NEED ANALYSIS OF ENGLISH LEARNING FOR DESIGNING ENGLISH CURRICULUM AND WORKSHEET ( A Case Study for the Sixth Semester of Electrical Engineering Students in the Academic Year of 2015/2016 at State Polytechnic of Cilacap)." Epigram 15, no. 2 (2019): 135-44. https://doi.org/10.32722/epi.v15i2.1247.

Widyanti and Amirullah. Organization and Design of Development of Islamic Religious Education in Indonesia. Jurnal At-Ta'dib. 15.1. 2020.

Widyastuti, Susana dan Andriyani, Erna. "Pengembangan Materi Pembelajaran Mandiri Sebagai Upaya Peningkatan Pemahaman Konsep-Konsep Dasar Linguistic Dalam Mata Kuliah Introduction To Linguistics". 17.1. 2010.

Zubair, Muhammad Kamal. et.al. Pedoman Penulisan Karya Ilmiah Institut Agama Islam Negeri Parepare. IAIN Parepare Nusantara Press. Vol. 21. 2020.

## APPENDICES

## Appendix 1: Research Permit Recommendation



Appendix 2: Permission Research


- UU ITE No. 11 Taturn 2000 Pasal 5 Ayat 1

Informasi Cokitronik dan/atau Dobimen Clektronik darvatau hani cataknya merupukan atar buiti fukum yang sah

- Dokurwen in telah ditandotangank secwa eletvonik mengounikan Sertikikat Elehtreaik yang dierbiban B5r



## Appendix 3: Letter of Research Completion

## KEMENTERIAN AGAMA REPUBLIK INDONESIA INSTITUT AGAMA ISLAM NEGERI PAREPARE FAKULTAS TARBIYAH <br> 

SURAT KETERANGAN TELAH MENELIT
NOMOR : B.270/In.39.5.1/PP.00.9/01/2022

Yang bertanda tangan di bawah ini,

| Nama | : Dr. Muh. Dahlan Thalib, M.A |
| :--- | :--- |
| NIP | : 196312311987031012 |
| Pangkat/Golongan | : Pembina TK. I/ IV b |
| Jabatan | Wakil Dekan Bidang Akademik, Kemahasiswaan, |
|  | Kelembagaan <br> dan Kerjasama |
|  | : Institut Agama Islam Negeri Parepare |

dengan ini menerangkan bahwa

| Nama | : Syaiful |
| :--- | :--- |
| NIM | $: 18,1300.032$ |
| Fakultas/Prodi | :Tarbiyah/Pendidikan Bahasa Inggris |
| Alamat | : Sengae Selatan, Desa Mattiro Ade, Kab. Pinrang |

Benar telah melakukan penelitian di Fakultas Tarbiyah Institut Agama Islam Negeri (IAIN) Parepare mulai bulan Jull 2021 sampal dengan bulan Agustus 2021, dengan judul penelitian "Graduates Demands On English Education Curriculum Of IAIN Parepare (A Need Anlysis Study)".

Demikian surat keterangan ini diberikan kepada yang bersangkutan untuk digunakan sebagaimana mestinya.

Appendix 4: The Subjects of English Education Program
DISTRIBUSI MATAKULIAH PER-SEMESTER PROGRAM STUDI PENDIDIKAN BAHASA INGGRIS

| No. | KODE | MATAKULIAH | SKS | SMT |
| :---: | :--- | :--- | :---: | :---: |
| 1. | IT39203 | Bahasa Indonesia | 2 | I |
| 2 | IT39201 | Pancasila | 2 | I |
| 3 | IT39207 | Ilmu ahlak | 2 | I |
| 4 | IT39209 | Ulumul quran | 2 | I |
| 5 | IT39207 | Ilmu Aqidah | 2 | I |
| 6 | $39 T A 1201$ | Pengantar ilmu pendidikan | 2 | I |
| 7 | $39 T A 1205$ | Psychology Pendidikan | 2 | I |
| 8 | $39 T A C 1201$ | Phonology | 2 | I |
| 9 | $39 T A C 1202$ | Vocabulary | 2 | I |
| 10 | $39 T A C 1204$ | Pre-intermediate structure | 20 |  |
| 1 |  | IT39210 | Ulumul hadist | 2 |
| 2 | IT39202 | Kewarganegaraan | II |  |
| $\mathbf{3}$ | IT39204 | Studi Budaya Lokal | II |  |
| 4 | IT39205 | Teknologi Informasi | II |  |
| 5 | IT39208 | Fiqh Ibadah | 2 | II |
|  |  |  | 2 | 2 |


| 6 | 39TA1210 | Pengembangan kurikulum | 2 | II |
| :---: | :---: | :---: | :---: | :---: |
| 7 | 39TA1216 | Bahasa Arab | 2 | II |
| 8 | 39TAC1205 | Literal listening | 2 | II |
| 9 | 39TAC1206 | Informative speaking | 2 | II |
| 10 | 39TAC1203 | Literal reading | 2 | II |
| 11 | 39TAC1208 | Upper intermediate structure | 2 | II |
| 12 | 39TAC1209 | Pronunciation | 2 | II |
|  |  | JUMLAH SKS | 24 |  |
| 1 | IT39211 | Metodologi Study Islam | 2 | III |
| 2 | 39TA1202 | Filsafat Pendidikan | 2 | III |
| 3 | 39TA1203 | Manajemen Pendidikan | 2 | III |
| 4 | 39TA1204 | Pendidikan Budaya Lokal | 2 | III |
| 5 | 39TA1213 | Strategi Pembelajaran | 2 | III |
| 6 | 39TAC1210 | Introduction to Linguistic | 2 | III |
| 7 | 39TAC1211 | Listening comprehension | 2 | III |
| 8 | 39TAC1212 | Intensive speaking | 2 | III |
| 9 | 39TAC1207 | Interpretive reading | 2 | III |
| 10 | 39TAC1214 | Paragraph writing | 2 | III |
| 11 | 39TAC1215 | Advanced structure | 2 | III |
|  |  | JUMLAH SKS | 22 |  |
| 1 | 39TA1208 | Statistika Pendidikan | 2 | IV |


| 2 | 39TA1211 | Perencanaan Pembelajaran | 2 | IV |
| :---: | :---: | :---: | :---: | :---: |
| 3 | 39TA1212 | Teknologi Pembelajaran | 2 | IV |
| 4 | 39TAC1216 | Translation | 2 | IV |
| 5 | $39 \mathrm{TAC1217}$ | Morphosintax | 2 | IV |
| 6 | 39TAC1218 | Sociolinguistics | 2 | IV |
| 7 | 39TAC1219 | Interactive Speaking | 2 | IV |
| 8 | 39TAC1220 | Essay Writing | 2 | IV |
| 9 | 39TAC1221 | Media in ELT | 2 | IV |
| 10 | 39TAC1222 | Psycholinguistic | 2 | IV |
| 11 | 39TAC1223 | Cross Cultural Understanding | 2 | IV |
| 12 | $39 \mathrm{TAC1213}$ | Critical Reading | 2 | IV |
|  |  | JUMLAH SKS | 24 |  |
| 1 | 39TA1206 | Etika Profesi Guru | 2 | V |
| 2 | 39TA1209 | Metodologi Penelitian Pendidikan | 2 | V |
| 3 | 39TAC1224 | Interpreter | 2 | V |
| 4 | 39TAC1225 | Semantic | 2 | V |
| 5 | 39TAC1226 | Language Testing | 2 | V |
| 6 | $39 \mathrm{TAC1227}$ | English Teaching Methodology | 2 | V |
| 7 | 39TAC1228 | ICT in ELT | 2 | V |
| 8 | 39TAC1229 | ESP | 2 | V |


| 9 | 39TAC1230/3 <br> 9TAC2238 | TOEFL/IELTS ${ }^{43}$ | 2 | V |
| :---: | :---: | :---: | :---: | :---: |
| 10 | 39TAC1231 | Academic Writing | 2 | V |
| 11 | 39TA1220 | Public Speaking | 2 | VI |
|  |  | JUMLAH SKS | 22 |  |
| 1 | 39TA1207 | Bimbingan danKonseling | 2 | VI |
| 2 | 39TA1214 | Evaluasi Pembelajaran | 2 | VI |
| 3 | 39TA1215 | Edu-Enterpreneurship | 2 | VI |
| 4 | 39TA1218 | Micro Teaching | 2 | VI |
| 5 | 39TAC1232 | English Material Development | 2 | VI |
| 6 | 39TAC1233 | TEFL | 2 | VI |
| 7 | 39TAC1234 | Methodology of English research | 2 | VI |
| 8 | 39TAC1235 | English Teacher Professionalism | 2 | VI |
| 9 | $\begin{aligned} & \text { 39TAC2236/3 } \\ & \text { 9TAC2239 } \end{aligned}$ | English for banking/English for tourism ${ }^{44}$ | 2 | VI |
| 10 | $\begin{aligned} & \text { 39TAC2237/3 } \\ & \text { 9TAC2240 } \end{aligned}$ | English for Business/English literature ${ }^{45}$ | 2 | VI |
| 11 | IT39212 | KPM Teori | 2 | VI |
|  |  | JUMLAH SKS | 22 |  |
| 1 | IT39213 | KPM | 4 | VII |
| 2 | IT39214 | Skripsi | 6 | VII |

[^18]| 3 | 39TA1219 | PPL | 2 | VII |
| :---: | :--- | :--- | :---: | :---: |
|  |  | JUMLAH SKS | 12 | VII |
|  |  | Total SKS | $\mathbf{1 4 8}$ |  |


| NO | Kode Matakuliah | Nama Matakuliah | SKS |
| :---: | :---: | :---: | :---: |
| 1 | 39TAC1201 | Phonology | 2 |
| 2 | 39TAC1202 | Vocabulary | 2 |
| 3 | 39TAC1203 | Literal reading | 2 |
| 4 | 39TAC1204 | Pre-intermediate structure | 2 |
| 5 | 39TAC1205 | Literal listening | 2 |
| 6 | 39TAC1206 | Informative speaking | 2 |
| 7 | 39TAC1207 | Interpretive reading | 2 |
| 8 | 39TAC1208 | Upper intermediate structure | 2 |
| 9 | 39TAC1209 | Pronunciation | 2 |
| 10 | 39TAC1210 | Introduction to Linguistic | 2 |
| 11 | 39TAC1211 | Listening comprehension | 2 |
| 12 | 39TAC1212 | Intensive speaking | 2 |
| 13 | 39TAC1213 | Critical reading | 2 |
| 14 | 39TAC1214 | Paragraph writing | 2 |
| 15 | 39TAC1215 | Advanced structure | 2 |
| 16 | 39TAC1216 | Translation | 2 |
| 17 | 39TAC1217 | Morphosintax | 2 |


| 18 | 39TAC1218 | Sociolinguistics | 2 |
| :---: | :---: | :---: | :---: |
| 19 | 39TAC1219 | Interactive Speaking | 2 |
| 20 | 39TAC1220 | Essay Writing | 2 |
| 21 | 39TAC1221 | Media in ELT | 2 |
| 22 | 39TAC1222 | Psycholinguistic | 2 |
| 23 | 39TAC1223 | Cross Cultural Understanding | 2 |
| 24 | 39TAC1224 | Interpreter | 2 |
| 25 | 39TAC1225 | Semantic | 2 |
| 26 | 39TAC1226 | Language Testing | 2 |
| 27 | $39 \mathrm{TAC1227}$ | English Teaching Methodology | 2 |
| 28 | 39TAC1228 | ICT in ELT | 2 |
| 29 | 39TAC1229 | ESP | 2 |
| 30 | 39TAC1230 | TOEFL ${ }^{46}$ | 2 |
| 31 | 39TAC1231 | Academic Writing | 2 |
| 32 | 39TAC1232 | English Material Development | 2 |
| 33 | 39TAC1233 | TEFL | 2 |
| 34 | 39TAC1234 | Methodology of English research | 2 |
| 35 | 39TAC1235 | English Teacher Professionalism | 2 |
| 36 | 39TAC2236 | English for banking ${ }^{47}$ | 2 |
| 37 | 39 TAC 2237 | English for Business ${ }^{48}$ | 2 |

[^19]| 38 | 39 TAC 2238 | IELTS | 2 |
| :--- | :--- | :--- | :--- |
| 39 | 39 TAC 2239 | English for tourism | 2 |
| 40 | 39 TAC 2240 | English literature | 2 |

## CATATAN:

1. Matakuliah Institute $: 34$ SKS
2. Matakuliah Fakultas : 40 SKS
3. Matakuliah Prodi $: 74$ SKS

Total : 148 SKS


NAMA MAHASISWA: SYAIFUL
NIM : 18.1300 .032
FAKULTAS/PRODI : TARBIYAH/PENDIDIKAN BAHASA INGGRIS
JUDUL : GRADUATES DEMAND ON ENGLISH EDUCATION CURRICULUM OF IAIN PAREPARE (A NEED ANALYSIS STUDY)

## INSTRUMEN PENEITIAN

## I. Petunjuk Pengisian Kuesioner

1. Bacalah dengan baik dan teliti.
2. Pilih salah satu jawaban yang menurut anda paling sesuai dengan cara memberikan tanda $(\sqrt{ })$ pada kolom yang benar dari setiap poin.
a. Keterangan:

SM : Sangat Mendukung
M : Mendukung
TM : Tidak Mendukung
STM : Sangat Tidak Mendukung
3. Dalam pengisian kuesioner mohon dijawab dengan jujur. Peneliti menjamin bahwa jawaban yang diterima hanya digunakan untuk kepentingan penelitian.

## II. Identitas Responden

Nama

Pekerjaan
Instansi $\qquad$

## III. Pernyataan

A. Necessities

1. Berikut ini kategori mata kuliah Teaching Studies yang saya anggap penting untuk mendukung profesi saya sebagai seorang pengajar.

| Mata Kuliah | SM | M | TM | STM |
| :--- | :--- | :--- | :--- | :--- |
| Pengantar Ilmu Pendidikan |  |  |  |  |
| Psikologi Pendidikan |  |  |  |  |
| Pengembangan Kurikulum |  |  |  |  |
| Filsafat Pendidikan |  |  |  |  |
| Manajemen Pendidikan |  |  |  |  |
| Strategi Pembelajaran |  |  |  |  |
| Statistika Pendidikan |  |  |  |  |
| Teknologi Pembelajaran |  |  |  |  |
| Perencanaan Pembelajaran |  |  |  |  |
| Etika Profesi Guru |  |  |  |  |
| Bimbingan Dan Konseling |  |  |  |  |


| Evaluasi Pembelajaran |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Metodologi Penelitian Pendidikan |  |  |  |  |
| Methodology of English Research |  |  |  |  |
| Micro Teaching |  |  |  |  |
| Language Testing |  |  |  |  |
| English Teaching Methodology |  |  |  |  |
| Information and Communication <br> Technology (ICT In ELT) |  |  |  |  |
| English Material Development |  |  |  |  |
| English Teacher Professionalism |  |  |  |  |
| Media In ELT |  |  |  |  |
| English for Specific Purpose |  |  |  |  |
| Teaching English as Foreign Language <br> (TEFL) <br> Lainnya....... |  |  |  |  |

2. Berikut ini kategori mata kuliah English Skills yang saya anggap penting untuk mendukung profesi saya sebagai seorang pengajar.

| Mata Kuliah | SM | M | TM | STM |
| :---: | :---: | :---: | :---: | :---: |


| Speaking |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Listening |  |  |  |  |
| Writing |  |  |  |  |
| Listening |  |  |  |  |

3. Berikut ini kategori mata kuliah English Sub Skills yang saya anggap penting untuk mendukung profesi saya sebagai seorang pengajar.

| Mata Kuliah | SM | M | TM | STM |
| :--- | :--- | :--- | :--- | :--- |
| Vocabulary |  |  |  |  |
| Pronunciation |  |  |  |  |
| Grammar |  |  |  |  |
| Lainnya...... |  |  |  |  |

4. Berikut ini kategori mata kuliah Linguistics yang saya anggap penting untuk mendukung profesi saya sebagai seorang pengajar.

| Mata Kuliah | SM | M | TM | STM |
| :--- | :--- | :--- | :--- | :--- |
| Introduction to Linguistics |  |  |  |  |
| Phonology |  |  |  |  |
| Morphology |  |  |  |  |


| Syntax |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Semantics |  |  |  |  |
| Pragmatics |  |  |  |  |
| Psycholinguistics |  |  |  |  |
| Sociolinguistics |  |  |  |  |
| Lainnya........ |  |  |  |  |

5. Berikut ini kategori mata kuliah Islamic Studies yang saya anggap penting untuk mendukung profesi saya sebagai seorang pengajar.

| Mata Kuliah | SM | M | TM | STM |
| :--- | :--- | :--- | :--- | :--- |
| Ilmu Akidah |  |  |  |  |
| Ilmu Akhlak |  |  |  |  |
| Ulumul Al-Quran |  |  |  |  |
| Fiqhi Ibadah |  |  |  |  |
| Ulumul Hadis |  |  |  |  |
| Metodologi Studi Islam |  |  |  |  |
| Lainnya....... |  |  |  |  |

6. Berikut ini kategori mata kuliah Culture yang saya anggap penting untuk mendukung profesi saya sebagai seorang pengajar.

| Mata Kuliah | SM | M | TM | STM |
| :--- | :--- | :--- | :--- | :--- |
| Cross Cultural Understanding |  |  |  |  |
| Studi Budaya Lokal |  |  |  |  |
| Pendidikan Budaya Lokal |  |  |  |  |
| Lainnya....... |  |  |  |  |

7. Berikut ini kategori mata kuliah General Subjects yang saya anggap penting untuk mendukung profesi saya sebagai seorang pengajar.

| Mata Kuliah | SM | M | TM | STM |
| :--- | :--- | :--- | :--- | :--- |
| Pendidikan Anti Korupsi |  |  |  |  |
| Pancasila dan Kewarganegaraan |  |  |  |  |
| Bahasa Indonesia |  |  |  |  |
| Bahasa Arab |  |  |  |  |
| Teknologi Informasi |  |  |  |  |
| Public Speaking |  |  |  |  |
| Lainnya..... |  |  |  |  |

8. Berikut ini kategori mata kuliah Supporting Subjects yang saya anggap penting untuk mendukung profesi saya sebagai seorang pengajar.

| Mata Kuliah | SM | M | TM | STM |
| :--- | :--- | :--- | :--- | :--- |
| TOEFL/IELTS |  |  |  |  |
| English For Banking |  |  |  |  |
| English For Tourism |  |  |  |  |
| English For Business |  |  |  |  |
| English Literature |  |  |  |  |
| Translation |  |  |  |  |
| Edu-Enterpreneurship |  |  |  |  |
| Lainnya..... |  |  |  |  |

## B. Lacks

1. Berikut ini kategori mata kuliah Teaching Studies dinilai masih kurang sehingga masih perlu dikembangkan sebagai pendukung karir saya.

| Mata Kuliah | SP | P | TP | STP |
| :--- | :---: | :---: | :---: | :---: |
| Pengantar Ilmu Pendidikan |  |  |  |  |
| Psikologi Pendidikan |  |  |  |  |
| Pengembangan Kurikulum |  |  |  |  |



| English for Specific Purpose |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Teaching English as Foreign Language <br> (TEFL) |  |  |  |  |
| Lainnya........ |  |  |  |  |

2. Berikut ini kategori mata kuliah English Skills dinilai masih kurang sehingga masih perlu dikembangkan sebagai pendukung karir saya.

| Mata Kuliah | SP | P | TP | STP |
| :--- | :---: | :---: | :---: | :---: |
| Speaking |  |  |  |  |
| Listening |  |  |  |  |
| Writing |  |  |  |  |
| Listening |  |  |  |  |

3. Berikut ini kategori mata kuliah English Sub Skills dinilai masih kurang sehingga masih perlu dikembangkan sebagai pendukung karir saya.

| Mata Kuliah | SP | P | TP | STP |
| :--- | :--- | :--- | :--- | :--- |
| Vocabulary |  |  |  |  |
| Pronunciation |  |  |  |  |
| Grammar |  |  |  |  |


| Lainnya...... |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

4. Berikut ini kategori mata kuliah Linguistics dinilai masih kurang sehingga masih perlu dikembangkan sebagai pendukung karir saya.

| Mata Kuliah | SP | P | TP | STP |
| :--- | :--- | :--- | :--- | :--- |
| Introduction to Linguistics |  |  |  |  |
| Phonology |  |  |  |  |
| Morphology |  |  |  |  |
| Syntax |  |  |  |  |
| Semantics |  |  |  |  |
| Pragmatics |  |  |  |  |
| Psycholinguistics |  |  |  |  |
| Sociolinguistics |  |  |  |  |
| Lainnya........ |  |  |  |  |

5. Berikut ini kategori mata kuliah Islamic Studies dinilai masih kurang sehingga masih perlu dikembangkan sebagai pendukung karir saya.

| Mata Kuliah | SP | P | TP | STP |
| ---: | :---: | :---: | :---: | :---: |
| Ilmu Akidah |  |  |  |  |


| Ilmu Akhlak |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Ulumul Al-Quran |  |  |  |  |
| Fiqhi Ibadah |  |  |  |  |
| Ulumul Hadis |  |  |  |  |
| Metodologi Studi Islam |  |  |  |  |
| Lainnya....... |  |  |  |  |

6. Berikut ini kategori mata kuliah Culture dinilai masih kurang sehingga masih perlu dikembangkan sebagai pendukung karir saya.

| Mata Kuliah | SP | P | TP | STP |
| :--- | :--- | :--- | :--- | :--- |
| Cross Cultural Understanding |  |  |  |  |
| Studi Budaya Lokal |  |  |  |  |
| Pendidikan Budaya Lokal |  |  |  |  |
| Lainnya....... |  |  |  |  |

7. Berikut ini kategori mata kuliah General Subjects dinilai masih kurang sehingga masih perlu dikembangkan sebagai pendukung karir saya.

| Mata Kuliah | SP | P | TP | STP |
| :--- | :---: | :---: | :---: | :---: |
| Pendidikan Anti Korupsi |  |  |  |  |


| Pancasila dan Kewarganegaraan |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Bahasa Indonesia |  |  |  |  |
| Bahasa Arab |  |  |  |  |
| Teknologi Informasi |  |  |  |  |
| Public Speaking |  |  |  |  |
| Lainnya..... |  |  |  |  |

8. Berikut ini kategori mata kuliah Supporting Subjects dinilai masih kurang sehingga masih perlu dikembangkan sebagai pendukung karir saya.

| Mata Kuliah | SP | P | TP | STP |
| :--- | :--- | :--- | :--- | :--- |
| TOEFL/IELTS |  |  |  |  |
| English For Banking |  |  |  |  |
| English For Tourism |  |  |  |  |
| English For Business |  |  |  |  |
| English Literature |  |  |  |  |
| Translation |  |  |  |  |
| Edu-Enterpreneurship |  |  |  |  |
| Lainnya..... |  |  |  |  |

## 9. Dalam aspek apa yang menurut anda kurang?

| Aspek | $\sqrt{c \mid}$ |
| :--- | :--- |
| Kurikulum tidak berorientasi pada kebutuhan <br> lulusan |  |
| Konten kurikulum tidak up to date |  |
| Tidak fleksibel dan tidak bervariasi |  |
| Evaluasi tidak dilakukan dengan baik |  |
| Kurikulum tidak mampu meningkatkan <br> kapasitas mahasiswa. |  |
| Durasi setiap mata kuliah masih kurang |  |
| Lainnya..... |  |

## C. Wants

1. Berikut ini adalah kategori mata kuliah Teaaching Studies yang belum atau sudah saya pelajari dan saya harapkan ada dalam kurikulum.

| Mata Kuliah | $\sqrt{ }$ |
| :--- | :---: |
| Pengantar Ilmu Pendidikan |  |
| Psikologi Pendidikan |  |
| Pengembangan Kurikulum |  |


| Filsafat Pendidikan |  |
| :--- | :--- |
| Manajemen Pendidikan |  |
| Strategi Pembelajaran |  |
| Statistika Pendidikan |  |
| Teknologi Pembelajaran |  |
| Perencanaan Pembelajaran |  |
| Etika Profesi Guru |  |
| Bimbingan Dan Konseling |  |
| Evaluasi Pembelajaran |  |
| Metodologi Penelitian Pendidikan |  |
| Methodology of English Research |  |
| Micro Teaching |  |
| Language Testing |  |
| English Teaching Methodology |  |
| Enformation and Communication Technology |  |
| ICT In ELT) |  |
| Media In ELT |  |


| English for Specific Purpose |  |
| :--- | :--- |
| Teaching English as Foreign Language <br> (TEFL) |  |
| Lainnya........ |  |

2. Berikut ini adalah kategori mata kuliah English Skills yang belum atau sudah saya pelajari dan saya harapkan ada dalam kurikulum.

| Mata Kuliah | $\sqrt{ }$ |
| :--- | :---: |
| Speaking |  |
| Listening |  |
| Writing |  |
| Listening |  |

3. Berikut ini adalah kategori mata kuliah English Sub Skills yang belum atau sudah saya pelajari dan saya harapkan ada dalam kurikulum.

| Mata Kuliah | $\sqrt{ }$ |
| :--- | :---: |
| Vocabulary |  |
| Pronunciation |  |
| Grammar |  |

## Lainnya......

4. Berikut ini adalah kategori mata kuliah Linguistics yang belum atau sudah saya pelajari dan saya harapkan ada dalam kurikulum.

| Mata Kuliah | $\checkmark$ |
| :--- | :---: |
| Introduction to Linguistics |  |
| Phonology |  |
| Morphology |  |
| Syntax |  |
| Semantics |  |
| Pragmatics |  |
| Sociolinguistics |  |
| Lainnya........ |  |

5. Berikut ini adalah kategori mata kuliah Islamic Studies yang belum atau sudah saya pelajari dan saya harapkan ada dalam kurikulum.

| Mata Kuliah | $\checkmark$ |
| :--- | :---: |
| Ilmu Akidah |  |


| Ilmu Akhlak |  |
| :--- | :--- |
| Ulumul Al-Quran |  |
| Fiqhi Ibadah |  |
| Ulumul Hadis |  |
| Metodologi Studi Islam |  |
| Lainnya....... |  |

6. Berikut ini adalah kategori mata kuliah Culture yang belum atau sudah saya pelajari dan saya harapkan ada dalam kurikulum.

| Mata Kuliah | $\checkmark$ |
| :--- | :---: |
| Cross Cultural Understanding |  |
| Studi Budaya Lokal |  |
| Pendidikan Budaya Lokal |  |
| Lainnya....... |  |

7. Berikut ini adalah kategori mata kuliah General Subjects yang belum atau sudah saya pelajari dan saya harapkan ada dalam kurikulum.

| Mata Kuliah | $\checkmark$ |
| :--- | :---: |
| Pendidikan Anti Korupsi |  |
| Pancasila dan Kewarganegaraan |  |


| Bahasa Indonesia |  |
| :--- | :--- |
| Bahasa Arab |  |
| Teknologi Informasi |  |
| Public Speaking |  |
| Lainnya..... |  |

8. Berikut ini adalah kategori mata kuliah Supporting Subjects yang belum atau sudah saya pelajari dan saya harapkan ada dalam kurikulum.

| Mata Kuliah | $\checkmark$ |
| :--- | :---: |
| TOEFL/IELTS |  |
| English For Banking |  |
| English For Tourism |  |
| English For Business |  |
| English Literature |  |
| Translation |  |
| Edu-Enterpreneurship |  |
| Lainnya..... |  |

## Approved by,

Consultant,


Dr. Zulfah, M. P.d NIP: 196712312003121011

Co-Consultant,


Drs. Abd Rauf Ibrahim, M.S.i NIP: 195812121994031002

Appendix 6: The Result of the Questionnaire

| R | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $\begin{aligned} & 1 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1 \\ & 2 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1 \\ & 3 \end{aligned}$ | 4 | $\begin{aligned} & 1 \\ & 5 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 1 \\ & 6 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 1 \\ & 7 \\ & \hline \end{aligned}$ | $\begin{aligned} & 1 \\ & 8 \end{aligned}$ | $\begin{aligned} & 1 \\ & 9 \\ & \hline \end{aligned}$ | $\begin{aligned} & 2 \\ & 0 \\ & \hline \end{aligned}$ | $\begin{aligned} & 2 \\ & 1 \\ & \hline \end{aligned}$ | $\begin{aligned} & 2 \\ & 2 \end{aligned}$ | 2 3 | $\begin{aligned} & 2 \\ & 4 \\ & \hline \end{aligned}$ | $\begin{aligned} & 2 \\ & 5 \\ & \hline \end{aligned}$ | $\begin{aligned} & 2 \\ & 6 \\ & \hline \end{aligned}$ | $\begin{aligned} & 2 \\ & 7 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 2 \\ & 8 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 2 \\ & 9 \\ & \hline \end{aligned}$ | 3 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{T} \\ \mathrm{M} \end{array}$ | M | M | M | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{ST} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \text { ST } \\ & \text { M } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| 2 | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | S $M$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |
| 3 | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |
| 4 | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| 5 | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |
| 6 | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |
| 7 | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S <br> M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |
| 8 | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M |
| 9 | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | T | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |
| $\begin{aligned} & 1 \\ & 0 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \hline \mathrm{T} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | T $M$ |
| $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | M | S M | S | $\begin{aligned} & \text { ST } \\ & \text { M } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |
| $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |
| 1 | S M | S M | S | S $M$ | S  <br> M  | S M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |


| $\begin{aligned} & 1 \\ & 4 \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | S | S | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1 \\ & 5 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S $M$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | S | S $M$ | M | M | M | S | S | S | S | S M | S M | S $M$ |
| $\begin{aligned} & 1 \\ & 6 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |  |  | S M | S M | S | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S $M$ |
| $\begin{aligned} & 1 \\ & 7 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M |
| 1 | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & 1 \\ & 9 \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  |  |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | S | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M |
| $\begin{aligned} & 2 \\ & 0 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \\ & \hline \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & 2 \\ & 1 \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | M | S | S | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S $M$ | S $M$ |  | S | S | S | S $M$ | M | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | S $M$ |
| $\begin{aligned} & 2 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | S $M$ |  | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | S M | $\mathrm{M}$ | S | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & 2 \\ & 4 \\ & \hline \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ |
| 2 | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | S $M$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | S $M$ | S $M$ | S M | S $M$ | S $M$ | S $M$ | S | S $M$ | S M | S | S | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M |
| $\begin{aligned} & 2 \\ & 6 \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | S M | M | M | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | S M |
| 2 | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S $M$ | S $M$ | S $M$ | S M | S M | S | S $M$ | S $M$ | S | S | S M | S | S M | S M | S $M$ |
| $\begin{aligned} & 2 \\ & 8 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | S | M | S M | S | S | S | S | S M | S M | S M |


| $\begin{aligned} & 2 \\ & 9 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 3 \\ & 0 \end{aligned}$ | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | S $M$ | S $M$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | S M | S M | S M | S $M$ |
| $\begin{aligned} & 3 \\ & 1 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S <br> M |
| $\begin{aligned} & 3 \\ & 3 \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline S \\ M \end{array}$ |
| $\begin{aligned} & 3 \\ & 4 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & 3 \\ & 5 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & 3 \\ & 6 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & 3 \\ & 7 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |
| $\begin{aligned} & \hline 3 \\ & 8 \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & 3 \\ & 9 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S <br> $M$ |
| $\begin{aligned} & 4 \\ & 0 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & 4 \\ & 1 \end{aligned}$ | S | S M | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S | S $M$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S $M$ |
| $\begin{aligned} & 4 \\ & 2 \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S M | S $M$ | S $M$ | S $M$ | S $M$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & 4 \\ & 3 \end{aligned}$ | S M | S M | S M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | S $M$ | S M | S M | S M | S $M$ | S $M$ | S $M$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | S M | S M | S $M$ |


| $\begin{aligned} & 4 \\ & 4 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 4 \\ & 5 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{ST} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline S \\ M \end{array}$ | $\begin{array}{\|l\|} \hline S \\ M \end{array}$ | $\begin{aligned} & \text { ST } \\ & \text { M } \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | S | S M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | S M | ST M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S | S | S | S M | S M | S $M$ |
| $\begin{aligned} & 4 \\ & 6 \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S | S M | S M | S M | S M | S $M$ |
| 4 7 | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & 4 \\ & 8 \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{array}{\|l\|} \hline S \\ M \end{array}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | S |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  |  |  | S M | S M | S M | S $M$ |
| 4 9 | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S M | S M | S M | S M | S M |  <br> $M$ |
| 5 | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | S $M$ |
| $\begin{aligned} & 5 \\ & 1 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  |  | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | M |  | S | S | S M |  |  |  | S $M$ |
| 5 2 | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | S M | S $M$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | S $M$ | S M | S M | S M | S M |  | S M | S M | S M | S <br> M |
| $\begin{aligned} & 5 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | S M | S M | S | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S | S M | S M | S M | S M | S <br> $M$ |
| $\begin{aligned} & 5 \\ & 4 \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \\ & \hline \end{aligned}$ | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  |  |  |  |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |
| $\begin{aligned} & 5 \\ & 5 \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S | S | S | S $M$ |
| 5 6 | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S | S | S | S M | S M | S <br> M |
| 5 7 | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  <br> $M$ |
| $\begin{aligned} & 5 \\ & 8 \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | S | S M | S | M | M | M |  |  |  | S M | S M | S M | S M | S $M$ |


| $\begin{aligned} & 5 \\ & 9 \end{aligned}$ | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | S | S | S | S | S | S M | S M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 6 \\ & 0 \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  |  | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | S | M | S | S | M |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~N} \end{aligned}$ | S | S | S | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | M |
| $\begin{aligned} & 6 \\ & 1 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S | S | S | S | S | S | S | S | M | S | S M | M |
| $\begin{aligned} & 6 \\ & 2 \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M |  | M | M | S | M | M | S | S $M$ | S $M$ |
| $\begin{aligned} & 6 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  |  |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | M | S | M | S | S | S | S |  | S | M | S | S | S M |
| $\begin{aligned} & 6 \\ & 4 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | M | M | M | S |  | M | S | M | S | M | S $M$ | S M | S M |
| $\begin{aligned} & 6 \\ & 5 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | M | M | M | M | M | M | M | M | S | M | S $M$ | S M | S M |
| $\begin{aligned} & 6 \\ & 6 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | S | M | M | M | M | M | S | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M |
| $\begin{aligned} & 6 \\ & 7 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M |  |  | M | M |  |  |  | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M |
| $\begin{aligned} & 6 \\ & 8 \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M |  |  |  | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & 6 \\ & 9 \end{aligned}$ | M | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | S | M | M | M | M | S $M$ | S M | M |
| 7 | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | S | M | M | M | M | S | M | S M |
| $\begin{aligned} & 7 \\ & 1 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S <br> M |
| 7 2 | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | M | M | M | M | M | M | M | M | M | M | S | S M | S $M$ |


| $\begin{aligned} & 3 \\ & 1 \end{aligned}$ | $\begin{aligned} & 3 \\ & 2 \end{aligned}$ | 3 | 3 4 | 3 5 | 3 6 | 3 7 | 3 8 | 3 9 | 4 0 | 4 1 | 4 2 | 3 | 4 | 4 | 6 | 4 7 | 4 8 | 9 | 0 | 5 1 | 5 | 5 3 | 5 4 | 5 | 5 | 7 | 5 | 5 9 | 6 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\mathrm{M}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\mathrm{M}$ | M | T | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M |
| M | M | M | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M |
| M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\mathrm{M}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | S $M$ | S $M$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ |
| M | M | M | M | M | M | M | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\mathrm{M}$ | $\mathrm{M}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M |
| M | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{T} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \mathrm{T} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | M | M | M | M | M | T | M | M | M | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | T | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | S M | S $M$ | S T $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | S $M$ | M | S $M$ | S | T $M$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| M | M | M | M | M | $\begin{array}{\|l\|} \hline \mathrm{T} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\mathrm{M}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | S M |  | S $M$ | M | M | M |  | S M | M | S M | S M | M | S M |  |  |  |  |


| M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | M | M | M | M | M | M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M |
| M | M | M | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline S \\ M \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M |
| M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{array}{\|l} \hline \mathrm{T} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| M | M | M | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | S M | S $M$ | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S <br> M | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{array}{\|l} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ |


| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S |  |  | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\mathrm{M}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | S $M$ | S $M$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | M |  | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| M | M | M | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | S |  | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M |
| M | M | M | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | T $M$ | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |  |  | S $M$ | M |  | S M | S | M |  | M | M | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | S | M | T | T $M$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ |
| $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  |  | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M |  | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & S \\ & M \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ |
| M | M | M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M |  | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | T $M$ | M | S T $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M |  | T M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{M} \\ \hline \end{array}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | S $M$ | M | M | M | S | M | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| M | M | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{M} \end{array}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | T $M$ | M | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | S M | S $M$ | S $M$ | S $M$ | S M | S M | S | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | M | M |  | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | M | M |


| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | S T $M$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S <br> T <br> M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \\ & \hline \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | S M | S M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M |  |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  |  |  |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ |
| M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M |


| M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | S $M$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | T | S M | M |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M |
| M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \\ & \hline \end{aligned}$ | M | M |
| M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M |
| M | M | M | M | M | M | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ |
| $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ |
| M | M | M | M | M | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M |
| M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M |
| M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ |
| M | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M | M | M | M | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{M} \end{aligned}$ | M | M |


| R | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | $\begin{aligned} & 1 \\ & 0 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 1 2 | $\begin{aligned} & 1 \\ & 3 \end{aligned}$ | 1 | 1 | 1 | 1 7 | 1 | 1 | 2 | 2 | 2 | 2 3 | 2 | 2 | 2 6 | 2 | 2 | 2 | 3 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | P | S | SP | P | P | P | TP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | S | S | T | T | S | S | P | P | S | S | S | S | SP | S | S | S |
| 2 | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \hline \text { S } \\ & \hline \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P |
| 3 | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| 4 | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | TP | P | P | P | P | P | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | SP | $\begin{aligned} & \hline \text { S } \\ & P \end{aligned}$ | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P |
| 5 | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P |
| 6 | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S |
| 7 | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | S |
| 8 | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | TP | P | T | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{array}{\|l} \hline S \\ P \end{array}$ | P | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | S | T | S |
| 9 | S | P | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P |
| $\begin{aligned} & 1 \\ & 0 \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | TP | P | P | P | TP | P | P | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | T |
| $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \text { ST } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & \text { P } \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | S |
| $\begin{aligned} & 1 \\ & 2 \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | TP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | S |
| $\begin{aligned} & 1 \\ & 3 \end{aligned}$ | S | S | SP | SP | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \hline \text { S } \\ & \hline \end{aligned}$ | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | S |
| $\begin{aligned} & 1 \\ & 4 \end{aligned}$ | P | P | P | TP | P | P | TP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | P | P | S | P | P |


| $\begin{aligned} & 1 \\ & 5 \end{aligned}$ | S | S | SP | SP | S | S | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | SP | SP | S | S | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | S | S | SP | S | S | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 1 \\ & 6 \end{aligned}$ | S | P | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | P | P | $\begin{aligned} & \text { ST } \\ & \text { P } \end{aligned}$ | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S |
| $\begin{aligned} & 1 \\ & 7 \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | TP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | S | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | S |
| $\begin{aligned} & 1 \\ & 8 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P |
| $\begin{aligned} & 1 \\ & 9 \end{aligned}$ | S | S | SP | P | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | S | S | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | P | S | S | S | SP | S | S | S <br>  |
| $\begin{aligned} & 2 \\ & 0 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | P | P | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | S |
| $\begin{aligned} & 2 \\ & 1 \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | TP | TP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | TP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | S | P | P | S | S | S |
| $\begin{aligned} & 2 \\ & 2 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P |
| $\begin{aligned} & 2 \\ & 3 \end{aligned}$ | P | P | SP | P | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | P | S | S | S | SP | S | S | P |
| $\begin{aligned} & 2 \\ & 4 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | TP | TP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P |
| $\begin{aligned} & 2 \\ & 5 \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P |
| $\begin{aligned} & 2 \\ & 6 \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | TP | TP | T | T | TP | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | TP | T | T | T | T | T | T | T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | T | T | T |  | T | T | T |
| $\begin{aligned} & 2 \\ & 7 \end{aligned}$ | P | P | SP | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | P | P | P | P | S | S |
| $\begin{aligned} & 2 \\ & 8 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | S | S | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S |  | SP | SP |  |  |  | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | S | S | SP |  |  | S |
| $\begin{aligned} & 2 \\ & 9 \end{aligned}$ | P | P | P | P | S | S | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | P | P | P | S |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | S | S | S | S | SP | S |  |  |


| $\begin{aligned} & 3 \\ & 0 \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | S | S | SP | S | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \hline 3 \\ & 1 \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \hline \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | S | S | S |
| $\begin{aligned} & 3 \\ & 2 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | SP | SP | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | S |
| $\begin{aligned} & 3 \\ & 3 \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | S |
| $\begin{aligned} & 3 \\ & 4 \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | P | P | TP | P | P | SP | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | P | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | P | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | P | P | P | P | P | P |
| $\begin{aligned} & 3 \\ & 5 \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | TP | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | S | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | S |
| $\begin{aligned} & 3 \\ & 6 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | TP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | S |
| $\begin{aligned} & 3 \\ & 7 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P |
| $\begin{aligned} & \hline 3 \\ & 8 \end{aligned}$ | P | P | P | P | P | P | TP | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P |
| $\begin{aligned} & \hline 3 \\ & 9 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | S | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | SP | S | S | S |
| $\begin{aligned} & 4 \\ & 0 \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | S | P | S |
| $\begin{aligned} & 4 \\ & 1 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | S | SP | S | S | S | S | SP | S | S | S |
| $\begin{aligned} & 4 \\ & 2 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | TP | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | P | S |
| $\begin{aligned} & 4 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | S | SP | P | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | S | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | P | S |
| $\begin{aligned} & 4 \\ & 4 \end{aligned}$ | T | P | P | TP | P | P | P | S | S | SP | S | S | P | P | S | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | SP | P | P | S |


| $\begin{aligned} & 4 \\ & 5 \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { ST } \\ & \text { P } \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | ST P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | $\begin{aligned} & \text { ST } \\ & \text { P } \end{aligned}$ | ST P | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | ST P | S | S | S | S | SP | P | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & 4 \\ & 6 \end{aligned}$ | P | P | SP | TP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | P | S | S |
| $\begin{aligned} & 4 \\ & 7 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | S | SP | P | S | S |
| $\begin{aligned} & 4 \\ & 8 \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | TP | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | TP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | S | S | S | P | SP | P | S | S |
| $\begin{aligned} & 4 \\ & 9 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | S | P | P | S | S | S | SP | P | P | S |
| $\begin{aligned} & 5 \\ & 0 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | TP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | P | P | S |
| $\begin{aligned} & 5 \\ & 1 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | P | P | S |
| $\begin{aligned} & 5 \\ & 2 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | SP | P | P | S |
| $\begin{aligned} & 5 \\ & 3 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | S | S | SP | P | P | S |
| $\begin{aligned} & 5 \\ & 4 \end{aligned}$ | P | P | P | TP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | TP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | S |
| $\begin{aligned} & 5 \\ & 5 \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | P | P | S |
| $\begin{aligned} & 5 \\ & 6 \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| $\begin{aligned} & 5 \\ & 7 \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | P | P |
| $\begin{aligned} & 5 \\ & 8 \end{aligned}$ | P | P | P | P | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | P | P | P | P | P | P | P | P |
| $\begin{aligned} & 5 \\ & 9 \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |


| 6 0 | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | S | S | P | P | S | P | P | P | P | P | P | T | P | P | P | P | P | P | P | P | P | S | SP | S | S | T |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6 1 | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | P | P | S | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | S | P | P | S | S | P | S | P | S | S | P | S | S | S | P | P | S | S | T |
| $\begin{aligned} & 6 \\ & 2 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | TP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | S |
| $\begin{aligned} & 6 \\ & 3 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | S | S | SP | S | S | SP | SP | S | S | S | S | S | S | S | SP | S | S | S | S | SP | S | S | S |
| 6 4 | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | S | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | S |
| $\begin{aligned} & 6 \\ & 5 \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | S |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | S | S | SP | S | S | S |
| 6 | P | P | P | TP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | S |
| 6 7 | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | TP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | TP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | SP | P | S | P |
| 6 8 | P | P | P | P | P | P | P | P | P | SP | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | S | S | S | SP | S | S | S |
| $\begin{aligned} & 6 \\ & 9 \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P |  | S | ST P | P | S | S |
| 7 | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | SP | S | S | S | S | S | S | S | SP | S | S | S | S | SP | S | S | S |
| $\begin{aligned} & 7 \\ & 1 \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | P | P | P | P | $\begin{aligned} & S \\ & P \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | SP | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | P | P | SP | S | S | S |
| 7 2 | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | SP | TP | S | S | TP | S | S | SP | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | P | S | S | S | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  |  | SP | P |  | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | SP | S | S | S |


| $\begin{aligned} & 3 \\ & 1 \end{aligned}$ | 3 2 | 3 | 3 4 | 3 5 | 3 | 3 7 | 3 8 | 3 | 4 0 | 4 1 | 4 2 | 4 3 | 4 | 4 5 | 4 6 | 4 7 | 4 | 4 | 5 | 5 1 | 5 | 5 3 | 5 4 | 5 | 5 | 5 7 |  | 5 9 | 6 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{S} \\ \mathrm{~T} \\ \mathrm{P} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | S | S | T |
| P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P |
| P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P |
| P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \hline \text { S } \\ & \text { P } \end{aligned}$ | P | P | P | P | S | P |
| P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | T |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & P \end{aligned}$ | P | P | P | P | S | P |
| $\begin{aligned} & \hline \text { S } \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{array}{\|l} \hline \text { S } \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{array}{\|l} \mathrm{T} \\ \mathrm{P} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{array}{\|l} \mathrm{S} \\ \mathrm{P} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{array}{\|l} \mathrm{T} \\ \mathrm{P} \\ \hline \end{array}$ | $\begin{array}{\|l} \mathrm{T} \\ \mathrm{P} \\ \hline \end{array}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | P | S | S T P | T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | S | P |
| P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{array}{\|l} \mathrm{T} \\ \mathrm{P} \end{array}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{array}{\|l} \mathrm{T} \\ \mathrm{P} \end{array}$ |  |  | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | T |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | T | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | S P | S | S |
| P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | T | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | S | S | S |  | P | P | P | S | P |


| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | S | S | S | S P | S | S | S | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | T |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \hline \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P |
| P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S |
| P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | P | P | P | P | P |
| S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | P | P |
| P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| P | P | P | P | P | P | P | P | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | S | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | S | S |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | S | P |
| P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | T |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | T | T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ |  | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T |  |  | T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | T |
| P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | P | S | P | P | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  |  | S | S | S | P |


| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | P | P | S | S | P | P | P | S | P | S | S | S | P | S | S | P | P | S | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | S | S | P | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | S | P |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S |
| P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & P \end{aligned}$ | S | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | S | P | $\begin{aligned} & \text { S } \\ & P \end{aligned}$ | P | P | S | P |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline S \\ & P \end{aligned}$ |  | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S |  | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S |
| P | P | P | P | P | P | P | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | P | S | P | P | P | P | P | P |
| P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | P | T |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P |  | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | S | S | S |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  | P | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P |
| P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ |  | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | P | T |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | S |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ |  | P | P | P | P | P | S | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | S | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P |
| P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  | S | P | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  | S | S | S | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | S | P | S | P | P | P | S | S | S | P | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | S |  | P | S | S | S | S |


| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | P | S | S | S | P | S | S | S | S | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \hline \text { S } \\ & P \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | P | T | T | T | T | P | T |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \\ & \hline \end{aligned}$ |  | S |  | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S T P | S | S | S P | S | S |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | P | P | S | T | S | S | S | T | S | S | P | P | S |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | T |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ |  |  |  |  |  |  | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | T | T | T | T | P | T |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | T |  | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | S | S | S | T | P | P | P | P | P |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | S | $\begin{aligned} & S \\ & P \end{aligned}$ | S | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | S | S | S | P |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \\ & \hline \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | S | P | S |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P |  | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ |  | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | P | S | S | S | P | S |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | T | P | P | P | P | T |
| P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | P | P | S | P | P | $\begin{aligned} & S \\ & P \end{aligned}$ | P | P | P | P | P | P | P |
| P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | S | P | P | P | P | P | P |


| P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T P | S | S | S | S | P | P | P | P | P | P | P | P | P | P | P | P | P | P | S | T | T | T | T | T | S | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | $\begin{aligned} & \hline \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | T |
| P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | S | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | S | P |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | T | P | P | S | P | T | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | $\begin{aligned} & \hline \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & P \end{aligned}$ | P | P | P | P |
| P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | S | T |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S |  | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | S | S | P |  | S | S | S | S | S | S | S | S | S | S | S |
| P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | $\begin{aligned} & S \\ & P \end{aligned}$ | P | P | S | P |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \hline \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | S | S |  | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | S | S | S | S | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | S | S | S | S | S | S |
| P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { S } \\ & \text { T } \\ & P \end{aligned}$ | S <br> T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{~T} \\ & \mathrm{P} \end{aligned}$ | S <br>  | S <br> T | P | S <br> T <br> P |
| P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | P | P | $\begin{aligned} & \hline S \\ & P \end{aligned}$ | T |
| P | P | P | P | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P |
| P | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | T | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ |  | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{T} \\ & \mathrm{P} \end{aligned}$ | P | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | S | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | P | P | P | P | P |
| $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & \mathrm{S} \\ & \mathrm{P} \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | S P | $\begin{aligned} & S \\ & P \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | S | S | S | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | $\begin{aligned} & S \\ & P \end{aligned}$ | P | P | P | $\begin{aligned} & \text { S } \\ & \text { P } \end{aligned}$ | P | P | S | P | S | P | P | T | S | S | S | S | S P | S | S |


| S |  |  |  |  |  |  | S | S | S | S | S |  | S | S |  |  | S | S | S | T | S | S | S |  | S | S | S |  | S |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P | P |
| P | P | P | P | P | P | P | P | S | S | S | S | S | S | P | P | P | P | P | P | P | P | P | P | P | S |  | S | S | P |
| P | P | P | P | P | P | P | P | S | S | S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## Appendix 7: Documentation




## CURRICULUM VITAE



Syaiful was born on February $17^{\text {th }} 2000$ in Pinrang, South Sulawesi. He is the last child from the marriage of his parents, Abd Yusri Said and Jumriah. His education background, he began his study at SD 41 Cempa Toa on 2005 and graduated on 2011. His junior high school was at MTs. DDI Malgawi Cempa

Dao and graduated on 2014 and then he continued his study at SMAN 9 Pinrang and graduated on 2017. He was enrolled and accepted in English Education Program, Tarbiyah Faculty, State Islamic Institute (IAIN) Parepare on 2018. He completed his study with his skripsi under the title "Graduates Demand on English Education Curriculum of IAIN Parepare".


[^0]:    ${ }^{1}$ Van Den Akker Jan et al., "Curriculum in Development SLO • Netherlands Institute for Curriculum Development," 2009, 57, www.slo.nl.
    ${ }^{2}$ Dianne L. Common and David Pratt, "Curriculum: Design and Development," Canadian Journal of Education / Revue Canadienne de l'éducation 6, no. 4 (1981): 122, https://doi.org/10.2307/1494364.

[^1]:    ${ }^{3}$ Ummi Nur Laila Sulistyani, "The Importance of Needs Analysis in a Language Curriculum Development : An Evaluation to 2013 Curriculum," UHAMKA International Conference on ELT and CALL (UICELL), no. November (2018): 143-52.
    ${ }^{4}$ C. Rudy Prihantoro, "The Perspective of Curriculum in Indonesia on Environmental Education," International Journal of Research Studies in Education 4, no. 1 (2014): 77-83, https://doi.org/10.5861/ijrse.2014.915.

[^2]:    ${ }^{5}$ Interview with English Program Graduate, Parepare, February 15 ${ }^{\text {th }}, 2022$.

[^3]:    ${ }^{6}$ Wenli Tsou, "Needs-Based Curriculum Development: A Case Study of NCKU's ESP Program," Taiwan International ESP Journal 1, no. 1 (2009): 77-95.
    ${ }^{7}$ Betti Widianingsih and Rostika Listyaningrum, "A NEED ANALYSIS OF ENGLISH LEARNING FOR DESIGNING ENGLISH CURRICULUM AND WORKSHEET ( A Case Study for the Sixth Semester of Electrical Engineering Students in the Academic Year of 2015/2016 at State Polytechnic of Cilacap)," Epigram 15, no. 2 (2019): 135-44, https://doi.org/10.32722/epi.v15i2.1247.

    8 Djuwairiah Ahmad et al., "Meeting the Students' Expectations: Evaluating the Implementation of English Language Teaching Curriculum," İlköğretim Online 20, no. 3 (2021): 16576, https://doi.org/10.17051/ilkonline.2021.03.16.

[^4]:    ${ }^{9}$ Joseph A. Kwarteng and Samuel Akuamoah Boateng, "Mid-Career Extension Graduates' Perceptions of the Impact of a Demand-Driven, Extension Curriculum in Ghana," Australian Journal of Adult Learning 52, no. 2 (2012): 257-76.
    ${ }^{10}$ Ehsan Namaziandost, "Process of Language Curriculum Development," Addaiyan Journal of Arts, Humanities and Social Sciences 1, no. 8 (2019): 61-70, https://doi.org/10.36099/ajahss.1.8.5.
    ${ }^{11}$ Sandy T. Soto, "An Analysis of Curriculum Development," Theory and Practice in Language Studies 5, no. 6 (2015): 1129, https://doi.org/10.17507/tpls.0506.02.

[^5]:    ${ }^{12}$ Common and Pratt, "Curriculum: Design and Development."
    ${ }^{13}$ Jan et al., "Curriculum in Development SLO • Netherlands Institute for Curriculum Development."
    ${ }^{14}$ Suparlan, Tanya Jawab Pengembangan Kurikulum dan Materi Pembelajaran, (Jakarta: PT. Rosda Karya Remaja, 2011)
    ${ }^{15}$ Abdul Rohman, "Pengembangan Kurikulum Teori dan Praktek, (Semarang: CV Karya Abadi Jaya, 2015).
    ${ }^{16}$ Jack C. Richards, "Curriculum Approaches in Language Teaching: Forward, Central, and Backward Design," RELC Journal 44, no. 1 (2013): 5-33, https://doi.org/10.1177/0033688212473293.

[^6]:    ${ }^{17}$ Jack C. Richard, Curriculum Development in Language Teaching, (Cambridge University Press, 2001).
    ${ }^{18}$ Maerfat A. Alsub clare, "Teacher Involvement in Curriculum Development," Journal of Education and Practice 7, no. 9 (2016): 106-7.

[^7]:    ${ }^{19}$ Hamdani Hamid, Pengembangan Kurikulum Pendidikan (Bandung: Pustaka Setia, 2012).
    ${ }^{20}$ Oemar Hamalik, Manajemen Pengembangan Kurikulum, (Bandung: Remaja Rosdakarya,2010).
    ${ }^{21}$ Soetopodan Soemanto, Pembinaan dan Pengembangan Kurikulum sebagai Substansi Problem Administrasi Pendidikan, (Jakarta: Bumi Aksara, 1993).

[^8]:    ${ }^{22}$ Agus Zaenul Fitri, Manajemen Kurikulum Pendidikan Islam dari Normatif-Filosofis ke Praktis, (Bandung: Alfabeta, 2013).

[^9]:    ${ }^{23}$ Pryla Rochmahwati, English Curriculum and Material Developments, (Ponorogo: STAIN Po Press, 2017).
    ${ }^{24}$ Mehdi Songhori, "Introduction to Needs Analysis," English for Specific Purposes World 4, no. 4 (2008): 1-25.
    ${ }^{25}$ I.S.P., Nation and John Macalister, "Language Curriculum Design. (New York: Routledge).
    ${ }^{26}$ Wina Sanjaya, Perencanaan dan Desain Sistem Pembelajaran, (Jakarta: Kencana Group, 2008).

[^10]:    ${ }^{27}$ Jack C. Richard, Curriculum Development in Language Teaching, (Cambridge University Press, 2001).

[^11]:    ${ }^{28}$ Songhori, "Introduction to Needs Analysis."
    ${ }^{29}$ T. M. Suarez, Needs Assesment, International Encyclopedia of Educational Technology, (Cambridge: Pergamon, 1996).
    ${ }^{30}$ B. Seels \& Z. Glasgow, Exsercise in intructional Technology,(Colombus OH: Merrill Publishing Co. 1990).

[^12]:    ${ }^{31}$ Gary Morisson, et. al., Designing Effective Instruction, (Third Edition, inc printed in the USA, 2001).
    ${ }^{32}$ Gary Morisson, et. al., Designing Effective Instruction, (Third Edition, inc printed in the USA, 2001).

[^13]:    ${ }^{33}$ Tom Hutchinson and Water A., English for Specific Purposes, (Cambridge: New York, 1987).

[^14]:    ${ }^{34}$ A.A Ngurah Yudha Martin Mahardika, "The Need for Needs Analysis in Curriculum Development in ESP Course: A Reflection on Curriculum Development in Indonesia," Lingua Scientia 6, no. 2 (2014): 183-94.
    ${ }^{35}$ Mahardika, "The Need for Needs Analysis in Curriculum Development in ESP Course : A Reflection on Curriculum Development in Indonesia."
    ${ }^{36}$ Oemar Hamalik. Dasar-Dasar Pengembagan Kurikulum. (Bandung: Remaja Rosdakarya, 2017)
    ${ }^{37}$ Mahardika, "The Need for Needs Analysis in Curriculum Development in ESP Course : A Reflection on Curriculum Development in Indonesia."

[^15]:    ${ }^{38}$ Nana Syaodih Sukmadinata, Metode Penelitian Pendidikan, (Bandung: PT. Remaja Rosdakarya, 2008)
    ${ }^{39}$ Tarbiyah Faculty Administration, 2021.

[^16]:    ${ }^{40}$ Sugiyono, Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif, dan R\&D, (Bandung: Alfabeta, 2014).

[^17]:    ${ }^{41}$ Susana Widyastutidan Erna Andriyani, "Pengembangan Materi Pembelajaran Mandiri Sebagai Upaya Peningkatan Pemahaman Konsep-Konsep Dasar Linguistic Dalam Mata Kuliah Introduction To Linguistics", 17.1, (2010).
    ${ }^{42}$ Sy. Rohana, "Urgensi Akhlak Seorang Pendidik". Bidayah: Studi Ilimu-Ilmu Keislaman, (2018).

[^18]:    ${ }^{43}$ Mata kuliah pilihan
    ${ }^{44}$ Mata kuliah pilihan
    ${ }^{45}$ Mata kuliah pilihan

[^19]:    ${ }^{46}$ Mata kuliah pilihan2
    ${ }^{47}$ Mata kuliah pilihan
    ${ }^{48}$ Mata kuliah pilihan

