# PET Model 4010 Voice Response Unit User's Manual 



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# PET Model 4010 Voice Response Unit User's Manual 

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## Cr commodore

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## Section

## INTRODUCTION

## GENERAL INFORMATION

With the purchase of the Pet 4010 Voice Response Unit, you have added a new dimension of computer output devices. Vocal response from the Pet 4010 has a vocabulary which is limited only by your imagination. This manual contains basic information on your Voice Response Unit. Additional information on Voice Synthesis can be found in many reference material sources, some of which are listed in this Manual. To get the most out of your computer system, you should refer to other Commodore manuals.

## DESCRIPTION

Your Pet 4010 Voice Response Unit utilizes principles of "phonetic speech sythesis." Most prior experience with speech output devices involves the playback of pre-recorded analog messages on a tape recorder, perhaps under computer control. Some more recent techniques involve digital recording and storage of speech in solid state memory elements and the reconstruction of that speech from the digital codes. Such techniques usually allow only a limited number of messages or a very limited vocabulary. The dynamic properties (intonation, rhythm, etc.) of human speech are difficult to reconstruct from digitally-stored words. Phonetic synthesis involves the generation and control of the basic speech sounds such that good quality speech with an unlimited vocabulary can be synthesized. These techniques allow the programmer to control the inflections, speed, dialect, pitch, stressed syllables, and dynamic transitions of speech.
"Phonemes" are the basic elements of speech-they are the sounds that are made by a certain position and movement of the lips, tongue, teeth, vocal cords, and other parts of the human vocal tract. "Speech sounds are comprised of consonants and vowels. Consonants are speech sounds that are characterized in enunciation by constriction or closure at one or more points in the breath channel. Vowels are speech sounds characterized by lack of any closure or constriction in the breath channel. Phonetics is the study of spoken language or speech sounds. It includes the systematic classification of spoken sounds according to the
way they are produced by the organs of speech and according to how they sound to the listener. ${ }^{\prime+\dagger}$ (Please see the References listed in this manual for more detailed information on speech synthesis.)

The Pet Model 4010 Voice Response Unit recognizes sixty-three (63) phoneme commands together with four (4) different choices of inflection (pitch). Thus, it provides you with 252 unique synthesizer outputs (sounds) which you may program in any desired sequential order. As an example of the flexibility of phonetic synthesis; consider that there are $(252)^{4}$, or over 4 billion possible utterances programmable from the Pet keyboard, for just the words containing 4 phonemes alone.

The phonetic rules used as a basis for programming are based on the physiological aspects of human speech, the actual acoustic content of speech, and its perception by the listener. These phonetic rules do not necessarily correlate with dictionary phonetics, nor do they correlate with phonetics as usually taught in the elementary schools. Thus, the rules contained in this manual may appear somewhat alien to the beginner; but, once you become acquainted with them, determining the optimum programming for your individual preference in voicing for any word or phrase is really quite easy.

The Pet Model 4010 has been optimized for the speech sounds of "General American English." This is the language or native dialect of the majority of U.S. citizens. It is important that you adhere to the programming rules in this manual in your first attempts at programming. Then, changes can be made to better fit your preference of pronunciation, inflection, intonation, etc. Thus, individual dialects can be synthesized, if you prefer, after the basic construction of the synthesized speech is heard. You should, however, observe some caution in phonetic substitutions since what is acceptable to one listener may not be acceptable to the next. You should realize that your ear as well as your voice is trained to a dialect. Proper synthesized speech must take into account all subconscious or automatic articulatory habits as well as the rules of which we are consciously aware.

The International Phonetic Alphabet (IPA) is comprised of symbols which are assigned to speech sounds. This symbolic representation is independent of the language and is used to phonetically code the spoken form of language. Thus, the IPA system may be used to write a phonetic transcription which is a phoneme-by-phoneme representation of speech in any language or dialect.

Symbols of this type will be used to represent the phonemes accessible from the keyboard of the Pet Model 4010. Please refer to Section 3.0 for more details of phonetic programming.

## APPLICATIONS

The applications of your Voice Response Unit are numerous, and examples may be found wherever a spoken response from your Pet Computer would be desirable. It has been recognized that human response to audio commands is often much quicker than response to visual commands. Thus, many aerospace warning systems use a spoken warning rather than warning lamps.

The Voice Response Unit can be programmed to speak columns of numbers for tabulation or verification purposes. It can also be programmed to give audio cues for errors during software development.

[^0]There are many applications for the Pet Model 4010 interfaced to a telephone. With a telephone interface, it is possible to have your computer provide you with output data over any remote telephone without the use of a printer. Imagine the numerous applications of such a system! Perhaps programs could be run by telephone remote control with the output spoken as it is computed. The computer might be "questioned" by a pushbutton input on the remote telephone.

Computer-aided instruction applications are also numerous. Teaching phonics is a natural application. Instruction by interaction with handicapped persons has been found to be an excellent use of the device. With voice response, it may be possible for a blind person to use the computer. The verbally-impaired person could also use the system as a means for verbal communication.
"Another natural application of speech output is to provide running commentary for complex screen displays, including animations. It can be unnatural and distracting to write such commentary on the screen.'’†† In this application, phonetic synthesis has a definite advantage over other techniques since it consumes such a small amount of computer capacity that it does not seriously limit the use of the screen graphics.

More advanced applications include text-to-speech systems and foreign language translation. As you become more familiar with your Voice Response Unit, you may want to experiment with algorithms for text-to-speech and/or for translation. These applications are complex ones and require a considerable application of language arts. Although the Voice Response Unit is optimized for the English language, other languages can also be spoken with some success using combinations of the available phonemes.

For larger, office computer systems, vocal response may be used for verification in word processing and for audio prompting as required.

## INTERFACE

Interface to the Pet Computer is accomplished with the use of a PET-to-IEEE cable. An IEEE-488 connector is located on the back of the Pet Model 4010 Voice Response Unit. This connector is used with the cable to connect to the User's Port on the Pet.

An external audio output jack is located on the front panel. This jack accepts a standard $1 / 4^{\prime \prime}, 2$-conductor phone plug. When the plug is inserted, the internal speaker is disconnected. The audio output at this jack is a low-impedance output that will drive audio loads from 4 to 16 ohms with up to 1 watt (RMS).

[^1]
## SPECIFICATIONS

## Physical

Cabinet
Dimensions

Speaker
Connectors

Controls

## Electrical

Power
U.L. Listed Transformer

Transformer input $120 \mathrm{~V}, 60 \mathrm{~Hz}, 15$ watts
Transformer output 12.5 V.A.C., 0.8 watts

## Environmental

| Storage/Shipping | $-40^{\circ} \mathrm{F}$ to $+160^{\circ} \mathrm{F}$ |
| :--- | :--- |
| Temperature | $\left(-40^{\circ} \mathrm{C}\right.$ to $\left.+70^{\circ} \mathrm{C}\right)$ |
| Operating Temperature | $32^{\circ} \mathrm{F}$ to $110^{\circ} \mathrm{F}$ |
|  | $\left(0^{\circ} \mathrm{C}\right.$ to $\left.43.3^{\circ} \mathrm{C}\right)$ |
| Operating Humidity | 0 to $95 \%$ with no condensation |

## UNPACKING YOUR VOICE RESPONSE UNIT

Before you unpack your Voice Response Unit, inspect the shipping carton for signs of damage. If it appears to be damaged, be especially careful when you inspect its contents. DON'T throw away any of the packaging material until you have located all the contents of the carton! The package should contain:

1. Commodore Pet Model 4010 Voice Response Unit
2. User Manual
3. Power Transformer
4. Demonstration Cassette

If any of the four items are missing or damaged, notify your Commodore dealer immediately.

Additionally, you must obtain the appropriate cable from your Commodore dealer to connect your Voice Response Unit to your computer.

## Section

2

## PREPARING TO USE YOUR VOICE RESPONSE UNIT

## INITIAL PREPARATION

Turn the Volume Control to the OFF position. Insert the subminiature phone plug on the power transformer cord into the power jack located on the rear of the Voice Response Unit. Do NOT plug the transformer into an AC outlet at this time.

## CONNECTING THE VOICE RESPONSE UNIT TO YOUR COMPUTER

A PET-to-IEEE cable, P/N 320202, is required to connect the Voice Response Unit to your computer. This is accomplished as follows:

1. Turn off the AC power to your computer.
2. Place the Voice Response Unit in a convenient location close to your computer.
3. Using needle-nose pliers, remove the connector key, if any, from the computer connector of the PET-to-IEEE cable.
4. Install the cable in the user port of the computer (see figure 2-1) with the Commodore logo facing $U P$.
5. Connect the other end of the cable to the Voice Response Unit.
6. Plug the power transformer on the Voice Response Unit into a standard 117 VAC, 60 Hz power outlet. Do Not turn on the power at this time.


Figure 2-1. Voice Response Unit to Computer Hookup.

## POWERING THE UNIT

You are now ready to proceed with the power-on part of the checkout:

1. Turn on the AC power to your computer and verify that it is working correctly.
2. To turn on the power to the Voice Response Unit, rotate the Volume Control clockwise. In response to the application of AC power, you may hear a steady tone from the Voice Response Unit. Load the demonstration cassette into the computer. When the program is running, the Voice Response Unit should speak in synchronization with the graphics on the screen.

## Section

## 3

## USING YOUR VOICE RESPONSE UNIT

## SOFTW ARE REQUIREMENTS

A sample program, "TALK", has been included to illustrate the initialization of and outputing to the Pet Model 4010 Voice Response Unit. A Program Description, Instructions, and Subroutine Map are included in the listing.

An example of teaching the 4010 to say "The United States of America" is as follows:

```
WORD \#1? 2724
WORD \#1? OK
WORD \#2? 2U2N2;2\&2T2!2D
WORD \#2? OK
WORD \#3? 2S2T2@2*2Y2T2S
WORD \#3? OK
WORD \#4? 262 V
WORD \#4? OK
WORD \#5? 262M232R232K262space
WORD \#5? OK
WORD \#6? SAY ALL
```

```
10 FEM "TALK" - GICTIOHAE'T DENG FEOG
12 GOGIE GGE:FEN CLEAE ECREEH
14 FEIHT" "THLK"
1E FEIHT "
```





```
24 PEIHT "CHAFFHGTERS. THE FGUF: LEVELS ":
\(2 E\) FEIHT "OF IHFLEETIOH GOHTEOL UNBN":
```



```
3G FEIHT "EITHER OF THO \(A E T H O G E: ": F E I H T:\)
ב FEIHT "\&1) HUMEERE IHEERTEGEE" :
S4 FEIHT "ThEEH FHOHEMES OE" :
```



```
Se FEINT "AT THE EE- GIHHIHG OF ":
46 PRIHT "HOREG HHO EETUEEH FHOHEMES ":
4e ferint " to deldite fi Chathoe in inflec:"
44 FEIHT "TIOH.": FEIHT:
4E PEIHT "FORE EMHFLE:": FRIHT:
```



```
\(5 G\) PREIHT "SEE REFEREHCE MAHUAL FFFEHIIS":
S2 PEJHT "II FOE GIETIUHEF'T HOTE:":
54 FEIHT "T'TFIHG GOGUE BGOG" FROUIUE":
EG FEINT "S F GUEROUTIHE MFF.": FEIHT:
G日 FOF \(T=1 T \mathrm{~T}\)
EZ PEINT "TrPE E TO EOHTIHUE":
E. IHFUT T:
EG JF TO "G" THEN \(I=J-1\)
GE HEMT I
PG GOGUE GGG:FEM QLEFR THE SCREEH
BG FEIHT" 1 HSTEUETI GHE:":PEIHT "
ES PEIHT" PEOHFT \(=\) MORD \#क ":FRIHT:
90 PEINT" EESFOHEE ":
95 PEIHT " EESULT":
169 FRJHT :
105 FEJHT "rFHOHEME ETFING \(\quad ":\)
110 FEIHT "4EIE EF'TG WGE":
115 FRIHT " \(\quad\) "
120 FEIHT "SF'vES HORE":
125 FEIHT "re" \("\) :
130 PEIHT "4G1E REEEATE LAST DUITFUT":
135 FEIHT "'SH'T' FLLL" ":
146 FRJHT "4日16 EEFEFTS GLL SF'vED WORDG"
145 FETH7 "sTOF" ";
\(15 G\) FEIHT "TEFMIHATES FEOGEAH"
\(155 \mathrm{FR} I H \mathrm{~T}: \mathrm{PEINT}:\)
\(160 \mathrm{FOR} \mathrm{J}=1 \mathrm{TO} 1\)
165 FEIHT "T'TAE C TG GOHTIHUE";
17 B INFITT T
175 IF T 车 Q "G"THEN \(\mathrm{I}=\mathrm{I}-1\)
\(18 \square\) HEKT I
185 LLE :GOGIE GGG:REM GLEAF FHGE
```



```
195 FEM EET 4 A 1 G FDORESSES
\(204 \mathrm{LF}^{2}=59471: \mathrm{FE}\) LIATA FOFT ALLRESE FES4F
```





```
220 [IL = 5G45G:FEN [IFTH [INR FEG 车ES4S
225 GOGLIE FEG:FEH IHIT 4E1G
294 FEM
295 FENH MAIHH FOIIITIHE
295 FEN FEFHIG IHFUTT: CHLLS DUITFUIT
297 FEN SUEFOUIT IHES
293 FEEM
```



```
302 FOF G=1 TG 2GE
365 % = 0
\Xi1E FFJHT "MOFCI #":G::IHFUUT EFF:
```




```
32 IF 汭车="EH'т' HLL" THEHN }\because=
E25 IF SFF= "EH'T GLL" FHt[ G% % THEH GOELE こGGE
30 IF SF'聿 = "ETDF" THEH }\because=
35 IF }%=6\mathrm{ THEF GOGLE 21EG: }\because=
34G IF }\because=1\mathrm{ THEH K= E - 
345 IF % S THEH HENT G
35G EHII
```



```
3G FDFI = 1 TD S%C0
365 FOCJ)= EOCI):T=I+1
367 HENT I
SGG H%(0)=G%(0)+马%《Q)
37E FEETINET
```








```
4GO REN FU|E EF 22 HFH 2Qg ELEFFE EIT 5
```



```
45G FEM Z2 = TI + SGG EET HH% WHIT TJME
4EQ FEM IF ZZ<TJ. THEH FFIHT "4G1G HOT WOF&IHG":STOF
```



```
580 FEFH
5GE FENH FHOHENE OUTFUIT FOUITIHE
SGT REN SEE SGE FOF FH|NITHTIDH
5 9 6 ~ F E N ~
BGE ZZ=FEEF&FH):FDYE[IF, (FH FHH[I EO)+IH
E10 2Z=FEE&&LF% FOHEEF,ZZ FH[ 2こG
E2g FOFEGF, ここOFGこ:2こ=TI+36G
```



```
E49 IF&FEEK&F'T')F||O%=0 THEH ES0
EG FEETUF&H
695 FEEM
GGE FENH IHIT FOUTIHE FQF 4E1E STHFETUF
E97 FEM
F0日 FOKE [O,ZSE:FEN EET [IFTH DIF: EEG TG FLL DHES
71日 FORE CF, 2GT:FEN EET COHTFOLL & IFFEF EHEE SLFEEN
72G GISLE EGG:FEN SEH[H STOF TG 4G1G
7SO FETIFEH
794 FEM
P95 FEM STOF FLL 4G1日 D|ITFUT
795 FEM
BG14 FH= FGE("-"): GOGUE GES
B1Q FETIUFH
895 FEN
```

```
896 FEM CLEHF: ECREEH
897 EEM
9G14 FREIHT "J"
315 EETUNEN
9 9 4 ~ F E E N
995 OHITFUT A STRIHG OF FHOHEHES
99E EEEM
1010G FOE I = 1 TO ERCE%
102G IF E%CI% = 255 THEH IH = S%GI+1% FH[I 3)$E4:I=I +2:GOTO1620
1050 FH = %CI) FHO ES
184G EGGUE GGE:REM WFITE FHOHENE
1060 HENT I
107G BIGUE EGG:EEM SEH[ISTOF TO 4016
108G EETUFH
1995 EEM
1996 RENM SA't FLL ROUITIVE
1997 REM
2GGE FOEK= O TO ARCG%
201E OCCK = H&CK
2G2G HENT K
2036 GOGUE 10G0
2G4G FETUFH
2095 FEM
ZGOE FEM TEFHELATION EOMITIHE
2g97 REN
```




```
211g IF FH = 255 THEN GOGUE 214Q:GOTG 212Q
2120 GOGUE 22G0
212S E%C0=&-1
2125 GOGUE 10GE:EEM IUITFUT FHOMEHE ETRIHG
2136 RETUPEt
214G FOE I = 1 TO LE
2150 FH = HGC(MIU&GF末,I,1) 
2155 S%(1)=FH Al4[163
```



```
217E HE%T I
2175 K = I
2180 RETUFH
2190 IF IH* >"3" OR IHF <"G"THEH FRIHT "IHFLECTIOH COHTEOL Q 日-马":RETURH
2195 FETURH
2200 FL =- 1:K=1
2210 FGF: I = Q TO LE-2 ETEF 2
```



```
2225 IN = HEOCINF
22S0 IF IH % FL THEH E%<K =25E: S%KK+1`=IH: FL =IH:K=K+2
2240 TiOEUE 2190
226日 FH = ASLGMID&GSF:I+2.1) 
2270 E%CK% = FH:KKK+1
200G HE%T I
2320 FETUPH
3606 GOGUE G64:FEM DLEHF: SDREEH
3065 FRIHT " FRONFAN"FHF""FFIHT:
3019 FREIHT "LIHE #'S FLHIGTIOHS
3615 FRIHT:
3620 FRINT "1日-18G FROMEAM LEELRIFTIOH
3030 FRIHT "1ES-E20 SET 401G ALORESSES"
304E FRIHT "2O4-S50 MAIH FOUITHE"
3055 FRIHT "SEE-4FE AHNHTATIOH"
3057 FRIHT "SEE-4064 SUEROUTIHES"
```

```
    35EG FRINT:
    3@TG FFIHT "Gl|EROUITIHE EESGFIFTIGHE"
    30EG FFEIFT:
    3GGE FFIHT "EHTE"T' LIHE 排'S FUHNTIENG"
    Z11日 FRIHT "GGE SGE-ESG WFITE FHOMEHE"
    3120 PFIHT "FGG EGETSG ETHFT 4E1Q"
    3130 FFIHT "3G0 FG4-E1E STOF 4Q1E"
    #4G FFIHT "GEG EGS-G1G ELEFF GGFEEH"
    315G FFIHT "10GE G94-1EGE OLITFUT ETFIFH"
    318G FFIHT "OGETG 1GG5-204E SF't HLL"
```




```
    4GGG FEETUFt
FEF['T'.
```

The Voice Response Unit recognizes the keyboard characters (ASCII code) as phoneme commands in accordance with table $3-1$. The phonemes may be entered from the Pet keyboard. An alphabetical listing is found in table 3-2. It is helpful to spend some time listening to each phoneme before trying to construct any words. Use the program to set up the conditions to listen to each phoneme and to phoneme combinations. Remember that each phoneme requires an inflection code from $\emptyset$ to 3 , with $\emptyset$ being the lowest pitch and 3 being the highest pitch. Notice that some phonemes are duplicated with only a change in the number following the phoneme symbol, such as EH1, EH2, or EH3. These numbers refer to the duration of the vowel sound, with 1 being the longest duration and 3 being the shortest duration.

Table 3-1. Phoneme Coding

| Phoneme Symbol | ASCII | Decimal | Phoneme Symbol | ASCII | Decimal |
| :---: | :---: | :---: | :---: | :---: | :---: |
| A1 | @ | 90 | PA1** | Space | 32 |
| AH2 | A | ¢1 | 12 | ! | 33 |
| B | B | 92 | I | ، | 34 |
| CH | C | ¢3 | I3 | \# | 35 |
| D | D | 94 | OO | \$ | 36 |
| E1 | E | 95 | OO1 | \% | 37 |
| F | F | 96 | Y | \& | 38 |
| G | G | 97 | U | - | 39 |
| H | H | 98 | IU | ( | 49 |
| I1 | I | $\emptyset 9$ | A2 | ) | 41 |
| J | J | 10 | AY | * | 42 |
| K | K | 11 | NG | + | 43 |
| L | L | 12 | AW | , $\ddagger$ | 44 |
| M | M | 13 | 9 DEC. | , | 45 |
| N | N | 14 | E |  | 46 |
| O1 | O | 15 | ER | i | 47 |
| P | P | 16 | PAQ** | $\emptyset$ | 48 |
| DT | Q | 17 | AW1 | 1 | 49 |
| R | R | 18 | AW2 | 2 | 59 |
| S | S | 19 | EH1 | 3 | 51 |
| T | T | 29 | EH2 | 4 | 52 |
| U1 | U | 21 | EH3 | 5 | 53 |
| V | V | 22 | UH1 | 6 | 54 |
| W | W | 23 | UH2 | 7 | 55 |
| ZH | X | 24 | UH3 | 8 | 56 |
| Y1 | Y | 25 | AE1 | 9 | 57 |
| Z | Z | 26 | AE | : $\ddagger$ | 58 |
| O 2 | [ | 27 | AH1 | , | 59 |
| O | 1 | 28 | THV | $<$ | 69 |
| AH | ] | 29 | TH | $=$ | 61 |
| A | $\uparrow$ | 30 | SH | > | 62 |
| Null | $\leftarrow$ | 31 |  |  |  |

[^2]AE , and is best programmed as AE1, I3. Another example of an allophone may be found in the numerous forms of $K$; the K in KEY, the K in LOOK, and the K sound in Q (which is programmed $\mathrm{K}, \mathrm{W}$ as in QUIT). The proper allophone must be generated to produce intelligible synthetic speech.

## Pure Vowels

Pure vowel sounds alone are not frequently found in all dialects of spoken English. Vowels are syllabic since whenever one is found in a word, it forms a syllable. Examples of the "short" vowels are as follows:

| VOWEL | TYPICAL USAGE |
| :---: | :---: |
| AW | Awful |
| EH | Ten |
| ER | Her |
| UH | But |
| AE | Hat |
| Y | Mary |
| I | Kit |
| AH | Hot |
| OO | Book |

These vowels can be heard to "glide" from beginning to end, but their glides are usually determined by the preceding and following phonemes. Such glides are generated automatically within the Voice Response Unit. However, you may find that the use of the coupling vowels I3, EH3, or UH3 in conjunction with a short vowel is an aid to natural sounding speech and intelligibility.

The numbered vowels such as UH1, UH2, and UH3 are of increasingly shorter duration. The higher the number, the shorter the duration. As a syllable is stressed less and less, a higher and higher number must be selected. The numbered vowels are also used in the "long" vowel phoneme pairs. For instance, A, AY is the vowel in MAIN; A1, AY or A2, AY would be the vowel in the same syllable in the word MAINTAIN. The numbered duration rule applies to all numbered vowels except Y 1 , which is Y used as a consonant such as in the word YES. It is also found at the beginning of a syllable such as the second syllable in the word UNUSUAL. Y1 is a different kind of sound than Y , as is evident when you sound these phonemes continuously. However, all other numbered vowels are exactly like their unnumbered, fully stressed counterparts if sounded continuously. As the number on a vowel increases, its time interval shortens, and its dynamic interaction between the preceding and following phonemes changes. Thus, two short duration phonemes will not have quite the same sound as one longer one of equal time duration. These differences are not evident if the phoneme is sounded continuously.

In addition to the syllabic stress factor affecting vowel length, the type of phoneme following the vowel is also a factor. If it is a sustained fricative such as S , the preceding vowel may be shortened. If it is a fricative stop such as T , the vowel may be shortened still further. The final determiner of vowel stress must be subjective judgement.

## Diphthongs

A diphthong is the sound made when two different vowels are combined together in a single syllable. The use of glided vowels, diphthongs, is a common occurrence in English, particularly common with long vowels.

With diphthongs, a vowel ends as a different sound than it was when it started. The "long" vowels A, E, I, O, and U have glides which are sounded independently of preceding and following phonemes, even if these sounds are spoken alone. These vowels are programmed as follows on the Voice Response Unit:

| VOWEL | TYPICAL USAGE | VOICE RESPONSE CODING |
| :---: | :--- | :--- |
| A | Name | A, AY |
| E | Tree | E or I3, E1 |
| I | High | AH, E1 |
| O | Note | UH1, O1 |
| U | Two | IU, U |

There are several classes of diphthongs, and examples are as follows:

| DIPHTHONG | TYPICAL USAGE | VOICE RESPONSE CODING |
| :---: | :--- | :--- |
| I | High | AH, E1 |
| I | Height | AH2, E1 |
| OW, OU | Cow | AH1, O1* |
|  |  | AH1, U1 |
| OI, OY | Noise | O1, EH3, E1* |
|  |  | O1, I3, E1 |
|  |  | O, E1 |

*Preferred

## Consonants

| CONSONANT | TYPICAL USAGE | VOICE RESPONSE CODING | NOTES |
| :---: | :--- | :--- | :--- |
| TH | Three | TH |  |
| THV | Then | THV | the voiced TH |
| W | Won | W |  |
| R | Area | R |  |
| T | Tea | T |  |
| P | Pot | P |  |
| Y1 | Yes | Y1 |  |
| S | See | S | not the G in |
| D | Day | D | George |
| F | Fire | F | J is D,J or |
| G | Get | G | DT, J |
| H | Hay, Ahead | H | Q is KW |
| J | Jet, George | J |  |
| K | Key, Sick, Car | K | KW |

## CONSONANT <br> TYPICAL USAGE <br> VOICE RESPONSE CODING <br> NOTES

| L | Lie, Well | L |  |
| :--- | :--- | :--- | :--- |
| NG | Bring | NG |  |
| Z | Zero | Z |  |
| SH | Shy | SH | CH is T, CH or |
| CH | Match, Chair | CH | DT, CH |
|  |  |  |  |
| V | Seven | V |  |
| B | Bob | B |  |
| N | Nine | N | the Z |
| M | My | M | the S |
| ZH | Azure | ZH | DT is merely |
|  | Measure | ZH | a tongue flap |
| DT | Butter | DT | in this word |

## Affricates

There are two affricates in English. An affricate is a two-consonant combination with a fricative stop. Examples are found in the words JUDGE and LATCH. The voiced affricate J is programmed D, J or DT, J. The unvoiced affricate CH is programmed T, CH or DT, CH.

## Liquids

The liquids are a particular class of phonemes ( $R, L, W$, and $Y 1$ ), which largely depend on the transitions into and out of these sounds for their recognition. These transitional phonemes are extremely important for maximum naturalness and intelligibility. Unfortunately, they depend a great deal on dialect and you must choose them carefully to meet your preference for the sound. Transitions around W and Y 1 are often sufficiently dependent on surrounding phonemes that the Voice Response Unit will adequately generate them automatically.

The pre-vocalic $R$ ( $R$ at the beginning of an utterance) normally does not require a transitional phoneme after it. However, the post-vocalic $R$ ( $R$ at the end of an utterance) may require it, depending on the preceding vowel. An example of the post-vocalic $R$ is found in the word AIR, which is programmed A, I3, R. Note the similarity of the phonetic designations to spelling. (EH3 in place of I3 is also acceptable for this word.)

The pre-vocalic L is enhanced by following it with UH3, EH3, or I3, depending on the following vowel. For instance, the word LAY is programmed L, EH3, A1, AY. The post-vocalic L is likewise enhanced by preceding it with UH3, EH3, or I3, such as in the word AIL. This is programmed as A, I3, L. Again, note the similarity to spelling. Again, EH3 may be used in place of I3.

## Techniques

The following techniques may be used to enhance synthetic speech:

1. Phonemes may be doubled or tripled as required to improve intelligibility by slowing the word (or increasing its duration) or changing the syllabic emphasis. Initial and terminal consonants are often doubled to make them more clearly discernable. Final nasal and fricative consonants are frequently doubled to sustain them.
2. Use the neutral vowel "schwa" (UH1, UH2, UH3) in polysllabic words whenever it might better be substituted for the vowel found in the written word.
3. Use the short pause (PAØ) to assist in the separation of consonants.
4. Try various substitutions in programming similar sounds, such as UH2R or UH3R in place of ER.
5. Use H or PAØ as aspirates with initial consonants requiring aspiration.

## INFLECTION CONTROL

Inflection is extremely important for synthesized speech to avoid a machine-like quality. Although ideal inflection is a subjective matter, a few simple rules will make this job easy. First determine the relative stress on various syllables in a word and on various words in a statement. Stronger stresses get longer phonemes and higher inflection pitches. The nominal pitch is half-way between inflection levels 1 and 2 . The nominal pitch has a frequency of 125 to 130 Hertz, which is equivalent to the average pitch of an adult Caucasian male.

Thus, the Voice Response Unit is designed for most frequent use of inflections 1 and 2. You may choose to depart from this rule, however, unnatural pitch contours may be produced. Higher inflections and longer vowels should be used on stressed syllables and words; lower inflections and shorter vowels on unstressed syllables.

The pitch from any inflection command appears in the Voice Response Unit output separated in time from $1 / 2$ a phoneme to a full phoneme later. Thus, if it is desired to stress a given phoneme, that phoneme should be a long one (if a vowel) and the highest inflection should probably be put on the preceding phoneme. This smoothing effect of inflection commands helps to make the speech flow more smoothly from phoneme-to-phoneme.

You may assemble a sentence out of a pre-stored vocabulary of words and have these words inflected according to sentence grammar. This is a complex technique, and it is often sufficient to store a vocabulary including nominal inflection commands for these words. (See Phonetic Dictionary in the Appendix.) When these words are assembled into sentences, the resulting speech may not be inflected perfectly, but, more importantly, it will be intelligible, and the pitch will vary smoothly from word to word. Thus, with the Voice Response Unit, there will be no pitch discontinuities at word boundaries, an inevitable shortcoming of systems utilizing pre-stored words of human speech.

Whether sentence programming is determined by software or manually by a programmer, the inflection level during any pause commands, as well as the binary zero position, should be inflection 1 . Use of successive pause commands to produce long pauses may result in a slight background noise during the protracted pause interval-this is normal.

The Voice Response Unit is designed to generate continuous speech, such that the words in a sentence have little or no gap between them. This is consistent with conversational English habits. In conversation, it is usual for words within a phrase or clause to be strung together, while phrases and clauses are separated by a gap. There is no doubt that intelligibility in either human or synthesized speech is enhanced by short gaps between words. This is accomplished merely by placing a PA0 after each word. The resulting speech is somewhat choppy, but it is acceptable and highly intelligible. Use of such gaps will slow the output rate of the Voice Response Unit accordingly.

To produce prepausal lengthening of the past phoneme in an utterance (lengthening of the time duration of the last phoneme), the PA1 should be placed at the end of the utterance. The PA0, or short pause, may be used instead, but the last phoneme in the utterance will be a little shorter. The PAØ is normally used between words in a sentence where very short pauses are desired. The PA1 is normally used at the end of an entire utterance, even if there is only a single word in the utterance. A word must not be followed by a binary zero (Null) command. If nulls are part of a phonetic data stream driving the synthesizer, a PA $\emptyset$ or PA1 must precede a null to prevent chopping off part of the last phoneme before the null.

In continuous speech, the synthesizer's built-in speech rules correspond to those in human speech. For instance, if two stop phonemes are adjacent, only the second phoneme is sounded. In the word FACT the K sound of the letter C and T are both fricative stops and only the second one in the pair is sounded. In this case, the only acoustic output attributable solely to these phonemes is the voiceless release of the T. The same applies if two adjacent stop phonemes are each in a different word. Examples of this are TACK-BOARD and CREDIT-BALANCE. If a pause command is programmed in between the two words in each pair, then both stop phonemes are sounded-the K and B in the first example, and the T and $B$ in the second set. Note that, in these examples, the first phoneme of the pair in question is voiceless, while the second phoneme is voiced. It is optional whether or not to sound both stop phonemes. It is certainly natural in human speech not to sound the first stop phoneme, but it is less intelligible regardless of whether the speech is human or synthetic. This example is a classic case of naturalness as opposed to intelligibility. Thus, you control the option.

The choices of programming at word boundaries are as follows:

1. PA1 for separation of phrases and clauses and sentences.
2. PAØ for optional separation of words.
3. PAØ for enhancement of pronunciation of closure phoneme pairs.
4. PA0 or PA1 followed by a null as a word boundary indicator.

## Appendix

## PHONETIC PROGRAMMING COMPUTER VOCABULARY

| Zero | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 2/PA1 } \end{aligned}$ | 2/Z | 3/A2 | 2/I2 | 2/13 | 1/R | 1/IU | 1/UH3 | 1/02 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1/02 | $\begin{aligned} & 2 \text { space } \\ & 2 \text { space } \end{aligned}$ | 2 Z | 3 ) | $2!$ | 2 \# | 1 R | 1 ( | 18 |
|  | 10 | 10 |  |  |  |  |  |  |  |
| One | 2/PA1 | 1/W | 1/UH2 | 2/UH3 | 2/UH3 | 1/N | 2/N | 2/PA1 |  |
|  | 2 space | 1 W | 17 | 28 | 28 | 1 N | 2 N | 2 space |  |
| Two | 2/PA1 | 2/T | 3/IU | 1/IU | 1/U1 | 1/U1 | 2/PA1 |  |  |
|  | 2 space | 2 T | 3 ( | 1 ( | 1 U | 1 U | 2 space |  |  |
| Three | 2/PA1 | 2/TH | 3/IU | 2/R | 1/E1 | 1/Y | 2/PA1 |  |  |
|  | 2 space | $2=$ | 3 ( | 2 R | 1 E | 1 \& | 2 space |  |  |
| Four | 2/PA1 | 2/F | 1/01 | 2/01 | 2/R | 2/PA1 |  |  |  |
|  | 2 space | 2 F | 10 | 20 | 2 R | 2 space |  |  |  |
| Five | 2/PA1 | 3/F | 2/AH2 | 1/AH2 | 1/EH3 | 1/I3 | 1/Y | 2/V | 2/PA1 |
|  | 2 space | 3 F | 2 A | 1 A | 15 | 1 \# | 1 \& | 2 V | 2 space |
| Six | 2/PA1 | 2/S | 2/S | 1/I3 | 3/13 | 2/I2 | 2/K | 2/S | 2/PA1 |
|  | 2 space | 2 S | 2 S | 1 \# | 3 \# | $2!$ | 2 K | 2 S | 2 space |
| Seven | 2/PA1 | 2/S | 2/S | 2/EH3 | 1/EH2 | 1/V | 1/EH2 | 2/N | 2/PA1 |
|  | 2 space | 2 S | 2 S | 25 | 13 | 1 V | 13 | 2 N | 2 space |
| Eight | 2/PA1 | 1/A2 | 2/A2 | 1/AY | 2/Y | 2/T | 2/PA1 |  |  |
|  | 2 space | 1) | 2 ) | 1 * | 2 \& | 2 T | 2 space |  |  |


| Nine | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N} \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \text { AH1 } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 2/EH3 } \\ & 25 \end{aligned}$ | $\begin{aligned} & 2 / 13 \\ & 2 \# \end{aligned}$ | $\begin{aligned} & 1 / Y \\ & 1 \& \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N} \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ten | 2/PA1 | 3/T | 3/EH3 | 1/EH2 | 1/EH2 | 1/N | 1/N | 2/PA1 |  |
|  | 2 space | 3 T | 35 | 14 | 14 | 1 N | 1 N | 2 space |  |
| Eleven | 2/PA1 | 1/E1 | 2/L | 2/EH2 | 1/EH2 | 1/V | 1/EH2 | 2/N | 2/PA1 |
|  | 2 space | 1 E | 2 L | 24 | 14 | 1 V | 14 | 2 N | 2 space |
| Twelve | 2/PA1 | 3/T | 2/W | 2/EH2 | 1/EH2 | 1/UH2 | 1/L | 1/V | 2/PA1 |
|  | 2 space | 3 T | 2 W | 24 | 14 | 18 | 1 L | 1 V | 2 space |
| Thirteen | 2/PA1 | 2/TH | 1/R | 1/R | 2/T | 1/T | 1/E1 | 2/Y | 2/N |
|  | 2 space | $2=$ | 1 R | 1 R | 2 T | 1 T | 1 E | 2 \& |  |
|  | 2/PA1 <br> 2 space |  |  |  |  |  |  |  |  |
| Fourteen | 2/PA1 | 2/F | 2/01 | 1/R | 2/T | 1/T | 1/E1 | 2/Y | 2/N |
|  | 2 space | 2 F | 20 | 1 R | 2 T | 1 T | 1 E | 2 \& | 2 N |
|  | 2/PA1 <br> 2 space |  |  |  |  |  |  |  |  |
| Fifteen | 2/PA1 | 2/F | 2/13 | 2/I3 | 2/F | 2/T | 1/T | 1/E1 | 2/Y |
|  | 2 space | 2 F | 2 \# | 2 \# | 2 F | 2 T | 1 T | 1 E |  |
|  | 2/N | 2/PA1 |  |  |  |  |  |  |  |
|  | 2 N | 2 space |  |  |  |  |  |  |  |
| Sixteen | 2/PA1 | 2/S | 2/S | 3/I3 | 2/13 | 2/K | 2/S | 1/T | 1/T |
|  | 1/Y | 2/N | 2/PA1 |  |  |  |  |  |  |
|  | 1/E1 | 2 space | 2 S | 2 S | 3 \# | 2 \# | 2 K | 2 S | 1 T |
|  |  | 1 \& | 2 N | 2 space |  |  |  |  |  |
|  | 1 T | 1 E |  |  |  |  |  |  |  |
| Seventeen | 2/PA1 | 2/S | 2/EH3 | 1/EH3 | 2/V | 2/13 | 2/N | 1/T | 1/E1 |
|  | 1/Y | $\begin{aligned} & 2 \text { space } \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 2 \mathrm{~S} \\ & 2 \text { space } \end{aligned}$ | 25 | 15 | 2 V | 2 \# | 2 N | 1 T |
|  | 1 E | 1 \& |  |  |  |  |  |  |  |
| Eighteen | 2/PA1 | 2/A2 | 1/AY | 1/Y1 | 1/T | 2/T | 2/E1 | 2/Y | 2/N |
|  | 2 space | $2)$ | 1 * | 1 Y | 1 T | 2 T | 2 E | 2 \& | 2 N |
|  | 1/PA1 <br> 1 space |  |  |  |  |  |  |  |  |


| Nineteen | 2/PA1 | 1/N | 2/AH1 | 2/Y | 1/N | 1/T | 1/E1 | 2/Y | 2/N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 space | 1 N | 2 ; | 2 \& | 1 N | 1 T | 1 E | 2 \& | 2 N |
|  | 1/PA1 <br> 1 space |  |  |  |  |  |  |  |  |
| Twenty | 2/PA1 | 2/T | 3/W | 2/EH2 | 1/EH2 | 1/N | 1/T | 1/Y | 2/PA1 |
|  | 2 space | 2 T | 3 W | 24 | 14 | 1 N | 1 T | 1 \& | 2 space |
| Thirty | 2/PA1 | 2/TH | 1/IU | 1/ER | 2/T | 1/AY | 1/Y | 2/PA1 |  |
|  | 2 space | $2=$ | 1 ( | $1 /$ | 2 T | 1* | 1 \& | 2 space |  |
| Forty | 2/PA1 | 2/F | 1/02 | 2/02 | 2/R | 2/T | 2/AY | 2/PA1 |  |
|  | 2 space | 2 F | 1 [ | 2 [ | 2 R | 2 T | 2 * | 2 space |  |
| Fifty | 2/PA1 | 2/F | 3/13 | 2/I3 | 1/F | 1/T | 1/AY | 1/Y | 2/PA1 |
|  | 2 space | 2 F | 3 \# | 2 \# | 1 F | 1 T | 1 * | 1 \& | 2 space |
| Sixty | 2/PA1 | 2/S | 3/13 | 2/I3 | 2/K | 1/S | 1/T | 1/AY | 1/Y |
|  | 2 space | 2 S | 3 \# | 2 \# | 2 K | 1 S | 1 T | 1 * |  |
|  | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ |  |  |  |  |  |  |  |  |
| Seventy | 2/PA1 | 2/S | 3/EH3 | 2/EH3 | 2/V | 2/EH3 | 1/N | 1/T | 1/AY |
|  | 2 space | 2 S | 35 | 25 | 2 V | 25 | 1 N | 1 T |  |
|  | 2/Y | 2/PA1 |  |  |  |  |  |  |  |
|  | 2 \& | 2 space |  |  |  |  |  |  |  |
| Eighty | 2/PA1 | 2/A2 | 2/AY | 1/Y1 | 1/T | 1/AY | 2/Y | 2/PA1 |  |
|  | 2 space | 2) | 2 * | 1 Y | 1 T | 1 * | 2 \& | 2 space |  |
| Ninety | 2/PA1 | 1/N | 2/AH1 | 1/Y | 1/N | 1/T | 1/AY | 2/Y | 2/PA1 |
|  | 2 space | 1 N | 2 ; | 1 \& | 1 N | 1 T | 1 * | 2 \& | 2 space |
| Twenty-One | 2/PA1 | 2/T | 1/W | 1/EH2 | 1/N | 2/T | 1/Y | 2/W | 1/UH3 |
|  | 2 space | 2 T | 1 W | 14 | 1 N | 2 T | 1 \& | 2 W |  |
|  | 1/UH2 | 1/N | 2/N | 2/PA1 |  |  |  |  |  |
|  | 17 | 1 N | 2 N | 2 space |  |  |  |  |  |
| Thirty-Two | 2/PA1 | 2/TH | 2/IU | 1/ER | 2/T | 1/Y | 2/T | 1/IU | 1/IU |
|  | 2 space | $2=$ | 2 ( | 1 / | 2 T | 1 \& | 2 T | 1 ( | 1 ( |
|  | 1/U1 | 2/U1 | 2/PA1 |  |  |  |  |  |  |
|  | 1 U | 2 U | 2 space |  |  |  |  |  |  |
| Forty-Three | 2/PA1 | 1/F | 1/01 | 1/R | 1/T | 2/Y | 1/TH | 1/IU | 1/R |
|  | 2 space | 1 F | 10 | 1 R | 1 T | 2 \& | $1=$ | 1 ( | 1 R |
|  | 1/E1 | 2/Y | 2/PA1 |  |  |  |  |  |  |
|  | 1 E | 2 \& | 2 space |  |  |  |  |  |  |


| Fifty-Four | 2/PA1 | 2/F | 2/I2 | 2/F | 2/T | 2/Y | 1/F | 1/02 | 2/02 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 space | 2 F | 2! | 2 F | 2 T | 2 \& | 1 F | 1 [ | 2 [ |
|  | 2/R | 2/PA1 |  |  |  |  |  |  |  |
|  | 2 R | 2 space |  |  |  |  |  |  |  |
| Sixty-Five | 2/PA1 | 2/S | 2/12 | 3/K | 2/S | 3/T | 1/Y | 1/F | 1/AH1 |
|  | 2 space | 2 S | $2!$ | 3 K | 2 S | 3 T | 1 \& | 1 F |  |
|  | 1/EH3 | 1/Y | 2/V | 2/PA1 |  |  |  |  |  |
|  | 15 | 1 \& | 2 V | 2 space |  |  |  |  |  |
| Seventy-Six | 2/PA1 |  | 1/EH1 | 2/V | 1/EH3 | 2/N | 1/T | 2/Y | 1/S |
|  | 2/S | 2/PA1 |  |  |  |  |  |  |  |
|  | 1/13 | 1/I3 | 2/K | $\begin{aligned} & 2 \text { space } \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 \mathrm{~S} \\ & 2 \text { space } \end{aligned}$ | 13 | 2 V | 15 | 2 N |
|  | 1 T | 2 \& | 1 S | 1\# | 1 \# | 2 K |  |  |  |
| Eighty-Seven | 2/PA1 | 1/A1 | 1/Y1 | 1/T | 1/Y | 2/S | 1/EH1 | 1/V | 1/EH3 |
|  | 2 space | 1 @ | 1 Y | 1 T | 1 \& | 2 S | 13 | 1 V |  |
|  | 1/N | 2PA1 |  |  |  |  |  |  |  |
|  | 1 N | 2 space |  |  |  |  |  |  |  |
| Ninety-Eight | 2/PA1 | 1/N | 1/AH1 | 1/AY | 1/N | 1/T | 1/Y | 2/A2 | 2/Y1 |
|  | 2 space | 1 N | 1; | 1 * | 1 N | 1 T | 1 \& | 2 ) | 2 Y |
|  | 2/T | 2/PA1 |  |  |  |  |  |  |  |
|  | 2 T | 2 space |  |  |  |  |  |  |  |
| Forty-Nine | 2/PA1 | 1/F | 1)01 | 2/R | 1/T | 1/Y | 1/N | 1/AH2 | 2/AH2 |
|  | 2 space | 1 F | 10 | 2 R | 1 T | 1 \& | 1 N | 1 A |  |
|  | 2/Y | 2/N | 2/PA1 |  |  |  |  |  |  |
|  | 2 \& | 2 N | 2 space |  |  |  |  |  |  |
| 100 | 2/PA1 | 1/W | 1/UH3 | 1/UH3 | 2/N | 2/H | 1/UH3 | 1/UH3 | 1/N |
|  | 2/13 | 2/D | 2/PA1 |  |  |  |  |  |  |
|  | 2/D | 1/R | 2 space | 1 W | 18 | 18 | 2 N | 2 H | 18 |
|  |  |  | 2 \# | 2 D | 2 space |  |  |  |  |
|  | 18 | 1 N | 2 D | 1 R |  |  |  |  |  |
| 1,000 | 2/PA1 | 1/W | 1/UH3 | 1/UH3 | 2/N | 2/TH | 1/AH1 | 1/U1 | 1/Z |
|  | 2/D | 2/PA1 |  |  |  |  |  |  |  |
|  | 2/I3 | 2/N | 2 space |  | 18 | 18 | 2 N | $2=$ | 1 ; |
|  |  |  | 2 D | 2 space |  |  |  |  |  |
|  | 1 U | 1 Z | 2 \# | 2 N |  |  |  |  |  |


| 1 Million | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 2/N } \end{aligned}$ | $\begin{aligned} & \text { 1/W } \\ & \text { 2/PA1 } \end{aligned}$ | 1/UH3 | 1/UH3 | 2/N | 1/M | 1/I3 | 1/I3 | 1/L |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1/Y1 | 1/EH3 | $\begin{aligned} & 2 \text { space } \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~W} \\ & 2 \text { space } \end{aligned}$ | 18 | 18 | 2 N | 1 M | 1 \# |
|  | 1 \# | 1 L | 1 Y | 15 |  |  |  |  |  |
| Point | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P} \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / 02 \\ & 1[ \end{aligned}$ | $\begin{aligned} & 1 / 02 \\ & 1[ \end{aligned}$ | $\begin{aligned} & 2 / 13 \\ & 2 \# \end{aligned}$ | $\begin{aligned} & \text { 2/AY } \\ & 2^{*} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ | 2/PA1 <br> 2 space |
| Negative | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N} \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3 } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 2/EH3 } \\ & 25 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{G} \\ & 1 \mathrm{G} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 2 \\ & 24 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2 \\ & 1! \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{V} \\ & 2 \mathrm{~V} \end{aligned}$ |
|  | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ |  |  |  |  |  |  |  |  |
| Positive | $\begin{aligned} & \text { 2/PA1 } \\ & 2 / \mathrm{V} \end{aligned}$ | $\begin{aligned} & \text { 2/P } \\ & \text { 2/PA1 } \end{aligned}$ | 3/AH2 | 1/AH2 | 1/UH3 | 2/Z | 1/EH2 | 1/T | 2/I2 |
|  | $\begin{aligned} & 2 \text { space } \\ & 2 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 2 \mathrm{P} \\ & 2 \text { space } \end{aligned}$ | 3 A | 1 A | 18 | 2 Z | 14 | 1 T | $2!$ |
| Equals | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{AY} \\ & 2^{*} \end{aligned}$ | $\begin{aligned} & \text { 2/E1 } \\ & 2 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{W} \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 2 / 001 \\ & 2 \% \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L} \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / Z \\ & 1 Z \end{aligned}$ | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ |
| Minus | 2/PA1 <br> 2 space | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{AH} 1 \\ & 2 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/UH3 } \\ & 28 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ |  |
| Plus | 2/PA1 <br> 2 space | $\begin{aligned} & 2 / \mathrm{P} \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 2/UH2 } \\ & 27 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{UH} 2 \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S} \\ & 2 \mathrm{~S} \end{aligned}$ | 2/PA1 <br> 2 space |  |  |
| Times | 2/PA1 <br> 2 space | $\begin{aligned} & 2 / \mathrm{T} \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1 } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{Y} \\ & 2 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{Z} \\ & 2 \mathrm{Z} \end{aligned}$ | 2/PA1 <br> 2 space |  |  |
| Divided-By | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 1/PA } \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 / B \end{aligned}$ | $\begin{aligned} & \text { 1/I3 } \\ & \text { 1/AH2 } \end{aligned}$ | $\begin{aligned} & \text { 1/I3 } \\ & \text { 2/AH2 } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 3 / \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { 2/AH2 } \\ & \text { 2/PA1 } \end{aligned}$ | 1/AH2 | 2/AY | 1/D |
|  | 1/I3 | 2/D* | $\begin{aligned} & 2 \text { space } \\ & 1 \emptyset \end{aligned}$ | $\begin{aligned} & 1 \mathrm{D} \\ & 1 \mathrm{~B} \end{aligned}$ | $\begin{aligned} & 1 \# \\ & 1 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & 1 \text { \# } \\ & 2 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~V} \\ & 3 \mathrm{Y} \end{aligned}$ | 2 A 2 space | 1 A |
|  | 2 * | 1 D | 1 \# | 2 D |  |  |  |  |  |
| Delete | 2/PA1 <br> 2 space | $\begin{aligned} & 2 / \mathrm{D} \\ & 2 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} \\ & 1 \& \end{aligned}$ | $1 / \mathrm{L}$ | $\begin{aligned} & 2 / \mathrm{E} 1 \\ & 2 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 2 / Y \\ & 2 \& \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T} \\ & 2 \mathrm{~T} \end{aligned}$ | 2/PA1 <br> 2 space |  |
| Erase | 2/PA1 <br> 2 space | $\begin{aligned} & \text { 1/AY } \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{IU} \\ & 2( \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / \end{aligned}$ | $\begin{aligned} & \text { 1/A2 } \\ & 1( \end{aligned}$ | $\begin{aligned} & \text { 2/AY } \\ & 2 * \end{aligned}$ | $\begin{aligned} & 2 / Y \\ & 2 \& \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S} \\ & 2 \mathrm{~S} \end{aligned}$ | 2/PA1 <br> 2 space |
| Enter | 2/PA1 <br> 2 space | $\begin{aligned} & 2 / \mathrm{EH} 3 \\ & 25 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 2 \\ & 14 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N} \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / \end{aligned}$ | 2/PA1 <br> 2 space |  |  |


| Clear | 2/PA1 | 3/K | 1/L | 2/AY | 1/I3 | 1/R | 2/PA1 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 space | 3 K | 1 L | 2 * | 1 \# | 1 R | 2 space |  |  |
| Change | 2/PA1 | 2/T | 1/CH | 2/A2 | 1/A2 | 2/Y | 2/N | 2/D | 2/J |
|  | 2 space | 2 T | 1 C | 2 ) | $1)$ | 2 \& | 2 N | 2 D | 2 J |
|  | 2/PA1 |  |  |  |  |  |  |  |  |
|  | 2 space |  |  |  |  |  |  |  |  |
| Sign (also Sine) | 2/PA1 | 2/S | 2/AH1 | 1/EH3 | 1/Y | 1/N | 2/PA1 |  |  |
|  | 2 space | 2 S | 2; | 15 | 1 \& | 1 N | 2 space |  |  |
| Squared | 2/PA1 | 2/S | 1/K | 2/W | 3/EH2 | 1/EH2 | $1 / R$ | 1/D | 2/PA1 |
|  | 2 space | 2 S | 1 K | 2 W | 34 | 14 | 1 R | 1 D | 2 space |
| Root | 2/PA1 | 2/ER | 1/U1 | 1/U1 | 1/T | 2/PA1 |  |  |  |
|  | 2 space | $2 /$ | 1 U | 1 U | 1 T | 2 space |  |  |  |
| Invert | 2/PA1 | 1/I3 | 1/I3 | 1/N | 2/V | 2/ER | 1/R | 1/T | 2/PA1 |
|  | 2 space | 1 \# | 1 \# | 1 N | 2 V | $2 /$ | 1 R | 1 T | 2 space |
| Percent | 2/PA1 | 2/P | 1/ER | 3/S | 1/EH2 | 1/EH2 | 1/N | 1/T | 2/PA1 |
|  | 2 space | 2 P | $1 /$ | 3 S | 14 | 14 | 1 N | 1 T | 2 space |
| Integer | 2/PA1 | 2/I3 | 1/13 | 2/N | 2/T | 1/I2 | 1/D | 1/J | 1/ER |
|  | 2 space | 2 \# | 1 \# | 2 N | 2 T | 1! | 1 D | 1 J | $1 /$ |
|  | 2/PA1 |  |  |  |  |  |  |  |  |
|  | 2 space |  |  |  |  |  |  |  |  |
| Log | 2/PA1 | 1/L | 2/AW2 | 1/AW2 | 1/AW2 | 1/G | 2/PA1 |  |  |
|  | 2 space | 1 L | 22 | 12 | 12 | 1 G | 2 space |  |  |
| In | 2/PA1 | 1/I | 1/N |  |  |  |  |  |  |
|  | 2 space | 1 I | 1 N |  |  |  |  |  |  |
| Natural Log | 2/PA1 | 1/N | 2/AE1 | 1/EH3 | 2/T | 2/CH | 1/IU | 1/R | 2/UH3 |
|  | 1/L | 1/AW2 | 1/AW2 | 1/AW2 | 1/G | 2/PA1 |  |  |  |
|  | 1/L | 2/PA0 | 2 space | 1 N | 29 | 15 | 2 T |  | 1 ( |
|  |  |  | 1 L | 12 | 12 | 12 | 1 G | 2 space |  |
|  | 1 R | 28 | 1 L | 20 |  |  |  |  |  |
| Cosine (COS) | 2/PA1 | 2/K | 2/01 | 2/02 | 1/S | 1/AH1 | 1/EH3 | 1/Y | 2/N |
|  | 2 space | 2 K | 10 | 2 [ | 1 S | 1; | 15 | 1 \& | 2 N |
|  | 2/PA1 |  |  |  |  |  |  |  |  |
|  | 2 space |  |  |  |  |  |  |  |  |
| Tangent (TAN) | 2/PA1 | 2/T | 2/AE1 | 2/AE1 | 1/N | 2/D | 1/J | 1/I3 | 2/N |
|  | 2 space | 2 T | 29 | 29 | 1 N | 2 D | 1 J | 1 \# | 2 N |


|  | $\begin{aligned} & 2 / \mathrm{T} \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 2 space } \end{aligned}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Absolute (ABS) | 2/PA1 | 1/AE1 | 2/EH3 | -1/B | 2/S | 2/UH2 | 3/L | 1/IU | 1/U1 |
|  | 2 space | 19 | 25 | 1 B | 2 S | 27 | 3 L | 1 ( | 1 U |
|  | 1/T | 2/PA1 |  |  |  |  |  |  |  |
|  | 1 T | 2 space |  |  |  |  |  |  |  |
| $\pi$ | 2/PA1 | 2/P | 2/AH2 | 1/AH2 | 1/EH? | 1/I3 | 2/AY | 2/PA1 |  |
| (PI) | 2 space | 2 P | 2 A | 1 A | 15 | 1 \# | 2 * | 2 space |  |
| Store | 2/PA1 | 2/S | 2/T | 2/01 | 1/01 | 1/R | 2/PA1 |  |  |
|  | 2 space | 2 S | 2 T | 20 | 20 | 1 R | 2 space |  |  |
| Recall | 2/PA1 | 1/R | 2/Y | 1/K | 1/AW1 | 1/AW2 | 2/L | 2/PA1 |  |
|  | 2 space | 1 R | 2 \& | 1 K | 11 | 12 | 2 L | 2 space |  |
| To the . . | 2/PA1 | 2/T | 1/IU | 2/U1 | 1/THV | 1/UH3 | 2/UH3 | 1/UH3 |  |
|  | 2 space | 2 T | 1 ( | 2 U | $1<$ | 18 | 28 | 18 |  |
| . . power . . | $\ldots$ | 2/P | 2/AH1 | 1/UH3 | 1/W | 2/ER | $\ldots$ |  |  |
|  | ... | 2 P | 2 ; | 18 | 1 W | $2 /$ |  |  |  |
| . . of | $\ldots$ | 1/UH3 | 1/UH3 | 2/UH2 | 2/V | 2/PA1 |  |  |  |
|  | ... | 18 | 18 | 27 | 2 V | 2 space |  |  |  |
| Register | 2/PA1 | 2/R | 1/EH2 | 2/EH3 | 1/D | 1/J | 1/I2 | 1/S | 1/T |
|  | 2 space | 2 R | 14 | 25 | 1 D | 1 J | 1! | 1 S | 1 T |
|  | 1/ER | 2/PA1 |  |  |  |  |  |  |  |
|  | 1 / | 2 space |  |  |  |  |  |  |  |
| Switch | 2/PA1 | 2/S | 2/W | 2/I3 | 1/I2 | 2/T | 1/Ch | 2/PA1 |  |
|  | 2 space | 2 S | 2 W | 2 \# | 1! | 2 T | 1 C | 2 space |  |
| Define | 2/PA1 | 2/D | 1/E1 | 2/F | 1/AH2 | 2/AH2 | 2/Y | 2/N | 2/PA1 |
|  | 2 space | 2 D | 1 E | 2 F | 1 A | 2 A | 2 \& | 2 N | 2 space |
| Function | 2/PA1 | 1/F | 2/UH3 | 1/UH3 | 1/N | 2/K | 1/SH | 1/UH3 | 2/N |
|  | 2 space | 1 F | 28 | 18 | 1 N | 2 K | $1>$ | 18 | 2 N |
|  | $\begin{aligned} & \text { 2/PA1 } \\ & \cdot 2 \text { space } \end{aligned}$ |  |  |  |  |  |  |  |  |
| Dimension | 2/PA1 | 2/D | 1/I2 | 2/M | 3/EH3 | 2/EH2 | 1/N | 2/SH | 1/UH3 |
|  | 2 space | 2 D | 1! | 2 M | 38 | 27 | 1 N | $2>$ |  |
|  | 2/N | 2/PA1 |  |  |  |  |  |  |  |
|  | 2 N | 2 space |  |  |  |  |  |  |  |
| End | 2/PA1 | 3/EH3 | 1/EH3 | 1/EH2 | 1/N | 1/N | 1/D | 2/PA1 |  |
|  | 2 space | 38 | 18 | 17 | 1 N | 1 N | 1 D | 2 space |  |


| For | 2/PA1 | 2/F | 1/02 | 2/01 | 1/r | 2/PA1 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 space | 2 F | 1 [ | 20 | 1 R | 2 space |  |  |  |
| Step | 2/PA1 | 2/S | 1/T | 3/EH3 | 1/EH2 | 1/P | 2/PA1 |  |  |
|  | 2 space | 2 S | 1 T | 35 | 14 | 1 P | 2 space |  |  |
| Next | 2/PA1 | 2/N | 2/EH3 | 1/EH2 | 1/K | 2/S | 2/T | 2/PA1 |  |
|  | 2 space | 2 N | 25 | 14 | 1 K | 2 S | 2 T | 2 space |  |
| Get | 2/PA1 | 2/G | 1/EH2 | 2/EH3 | 1/T | 2/PA1 |  |  |  |
|  | 2 space | 2 G | 14 | 25 | 1 T | 2 space |  |  |  |
| Gosub | 2/PA1 | 1/G | 1/02 | 1/01 | 2/S | 1/UH2 | 2/UH2 | 1/B | 2/PA1 |
|  | 2 space | 1 G | 1 [ | 10 | 2 S | 17 | 27 | 1 B | 2 space |
| Return | 2/PA1 | $1 / \mathrm{R}$ | 1/Y | 3/T | 2/R | 1/ER | 1/N | 2/PA1 |  |
|  | 2 space | 1 R | 1 \& | 3 T | 2 R | $1 /$ | 1 N | 2 space |  |
| Goto | 2/PA1 | 1/G | 1/02 | 1/01 | 2/T | 1/IU | 1/U1 | 2/U1 | 2/PA1 |
|  | 2 space | 1 G | 1 [ | 10 | 2 T | 1 ( | 1 U | 2 U | 2 space |
| If | 2/PA1 | 1/I2 | 2/I3 | 1/I3 | 1/F | 2/PA1 |  |  |  |
|  | 2 space | 1! | 3 \# | 1 \# | 1 F | 2 space |  |  |  |
| Then | 2/PA1 | 2/THV | 1/EH2 | 1/EH2 | 2/EH3 | 2/N | 2/PA1 |  |  |
|  | 2 space | $2<$ | 14 | 14 | 25 | 2 N | 2 space |  |  |
| Input | 2/PA1 | 2/I1 | 1/N | 2/P | 2/00 | 1/T | 2/PA1 |  |  |
|  | 2 space | 1 I | 1 N | 2 P | 2 \$ | 1 T | 2 space |  |  |
| Let | 2/PA1 | 1/L | 1/EH2 | 1/EH3 | 2/EH3 | 2/T | 2/PA1 |  |  |
|  | 2 space | 1 L | 14 | 15 | 25 | 2 T | 2 space |  |  |
| On | 2/PA1 | 1/UH3 | 1/AH2 | 1/AH2 | 2/UH3 | 2/N | 2/PA1 |  |  |
|  | 2 space | 18 | 1 A | 1 A | 28 | 2 N | 2 space |  |  |
| Poke | 2/PA1 | 2/P | 1/01 | 2/01 | 1/K | 2/PA1 |  |  |  |
|  | 2 space | 2 P | 10 | 20 | 1 K | 2 space |  |  |  |
| Peek | 2/PA1 | 2/P | 1/E1 | 2/Y | 1/K | 2/PA1 |  |  |  |
|  | 2 space | 2 P | 1 E | 2 \& | 1 K | 2 space |  |  |  |
| Print | 2/PA1 | 2/P | 1/R | 1/I2 | 2/I2 | 2/N | 2/T | 2/PA1 |  |
|  | 2 space | 2 P | 1 R | 1 ! | $2!$ | 2 N | 2 T | 2 space |  |
| Read | 2/PA1 | 1/R | 2/AY | 1/E1 | 1/Y | 2/D | 2/PA1 |  |  |
|  | 2 space | 1 R | 2 * | 1 E | 1 \& | 2 D | 2 space |  |  |
| Data | 2/PA1 | 2/D | 1/A2 | 1/A2 | 2/AY | 1/T | 1/UH3 | 2/UH3 | 2/PA1 |
|  | 2 space | 2 D | $1)$ | $1)$ | 2 * | 1 T | 18 | 28 | 2 space |
| (Re)store | 2/PA1 | 2/S | 1/T | 2/01 | 1/01 | 2/R | 2/PA1 |  |  |
|  | 2 space | 2 S | 1 T | 20 | 10 | 2 R | 2 space |  |  |


| REM | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 2/EH2 } \\ & 24 \end{aligned}$ | $\begin{aligned} & 1 / \text { EH3 } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/UH3 } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REMark | 2/PA1 | 1/R | 1/Y | 2/M | 2/AH2 | 1/AH2 | 1/UH3 | 2/R | 1/K |
|  | 2 space | 1 R | 1 \& | 2 M | 2 A | 1 A | 18 | 2 R | 1 K |
|  | 2/PA1 |  |  |  |  |  |  |  |  |
|  | 2 space |  |  |  |  |  |  |  |  |
| Stop | 2/PA1 | 2/S | 3/T | 2/AH2 | 1/AH2 | 1/UH3 | 1/P | 2/PA1 |  |
|  | 2 space | 2 S | 3 T | 2 A | 1 A | 18 | 1 P | 2 space |  |
| Continue | 2/PA1 | 2/K | 1/UH2 | 1/N | 3/T | 2/I2 | 1/I3 | 2/N | 1/Y1 |
|  | 2 space | 2 K | 17 | 1 N | 3 T | 2! | 1 \# | 2 N |  |
|  | 1/IU | 2/U1 | 2/PA1 |  |  |  |  |  |  |
|  | 1 ( | 2 U | 2 space |  |  |  |  |  |  |
| Wait | 2/PA1 | 1/W | 1/A2 | 2/A2 | 1/AY | 2/T | 2/PA1 |  |  |
|  | 2 space | 2 W | $1)$ | 2 ) | 1 * | 2 T | 2 space |  |  |
| List | 2/PA1 | 1/L | 2/I2 | 1/I2 | 2/I2 | 2/S | 2/T | 2/PA1 |  |
|  | 2 space | 1 L | 2! | 1! | 2! | 2 S | 2 T | 2 space |  |
| Load | 2/PA1 | 1/L | 1/001 | 1/02 | 2/01 | 2/D | 2/PA1 |  |  |
|  | 2 space | 1 L | $1 \%$ | 1 [ | 20 | 2 D | 2 space |  |  |
| New | 2/PA1 | 2/N | 1/IU | 1/U1 | 2/U1 | 2/PA1 |  |  |  |
|  | 2 space | 2 N | 1 ( | 1 U | 2 U | 2 space |  |  |  |
| Run | 2/PA1 | 2/R | 2/UH3 | 1/UH3 | 1/UH2 | 1/N | 1/N | 2/PA1 |  |
|  | 2 space | 2 R | 28 | 18 | 17 | 1 N | 1 N | 2 space |  |
| Save | 2/PA1 | 2/S | 1/A2 | 2/A2 | 1/AY | 1/Y | 2/V | 2/PA1 |  |
|  | 2 space | 2 S | 1) | $2)$ | 1 * | 1 \& | 2 V | 2 space |  |
| Verify | 2/PA1 | 1/V | 2/EH3 | 2/EH2 | 1/R | 2/EH2 | 1/F | 1/AH2 | 1/AH2 |
|  | 2 space | 1 V | 25 | 24 | 1 R | 24 | 1 F | 1 A |  |
|  | 2/Y | 2/PA1 |  |  |  |  |  |  |  |
|  | 2 \& | 2 space |  |  |  |  |  |  |  |
| ASCII | 2/PA1 | 1/AE1 | 2/AE1 | 1/S | 1/K | 2/AY | 1/Y | 2/PA1 |  |
|  | 2 space | 19 | 29 | 1 S | 1 K | 2 * | 1 \& | 2 space |  |
| CHAR \$ | 2/PA1 | 2/K | 2/EH3 | 1/EH2 | 1/ER | 2/PA0 | 1/D | 1/AH1 | 1/UH3 |
|  | 2/ER | 2/PA1 |  |  |  |  |  |  |  |
|  | 1/L | 2 space |  | 25 | 14 | $1 /$ | $2 \emptyset$ | 1 D | 1 ; |
|  |  | $2 /$ | 2 space |  |  |  |  |  |  |
|  | 18 | 1 L |  |  |  |  |  |  |  |


| Len | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 2 \\ & 14 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 2 \\ & 24 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 3 \\ & 25 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N} \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 2 space } \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Left \$ | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 1/L } \end{aligned}$ | $\begin{aligned} & \text { 2/L } \\ & 2 / \mathrm{ER} \end{aligned}$ | $\begin{aligned} & \text { 2/EH3 } \\ & \text { 2/PA1 } \end{aligned}$ | 1/EH2 | 2/F | 1/T | 1/PA0 | 1/D | 1/AH1 |
|  | 1/UH3 | $\begin{aligned} & \text { 2 space } \\ & \text { 1L } \end{aligned}$ | $\begin{aligned} & 2 \text { L } \\ & 2 / \end{aligned}$ | $\begin{aligned} & 25 \\ & 2 \text { space } \end{aligned}$ | 14 | 2 F | 1 T | 10 | 1 D |
|  | 1; | 18 |  |  |  |  |  |  |  |
| Length | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3 } \\ & 15 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 3 \\ & 25 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{I} 3 \\ & 2 \# \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N} \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/DT } \\ & 2 \mathrm{Q} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{TH} \\ & 2= \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{TH} \\ & 2= \end{aligned}$ |
|  | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ |  |  |  |  |  |  |  |  |
| MID \$ | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{M} \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 2/13 } \\ & 2 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathbf{1 2} \\ & 1! \end{aligned}$ | $\begin{aligned} & \text { 2/D } \\ & 2 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/PAØ } \\ & 10 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1 } \\ & 1: \end{aligned}$ | $\begin{aligned} & \text { 1/UH3 } \\ & 18 \end{aligned}$ |
|  | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 2/ER } \\ & 2 / \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{PA} 1 \\ & 2 \text { space } \end{aligned}$ |  |  |  |  |  |  |
| Right \$ | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 2/ER } \end{aligned}$ | $\begin{aligned} & \text { 1/R } \\ & 2 / \mathrm{PA1} \end{aligned}$ | 2/UH3 | 2/AH2 | 2/Y | 1/T | 1/PA0 | 1/D | 1/AH1 |
|  | 1/UH3 | 1/L | $2 \text { space }$ | $\begin{aligned} & 1 \mathrm{R} \\ & 2 \text { space } \end{aligned}$ | 28 | 2 A | 2 Y | 1 T | 10 |
|  | 1 D | 1; | 18 | 1 L |  |  |  |  |  |
| String \$ | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 1/L } \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S} \\ & 2 / \mathrm{ER} \end{aligned}$ | $\begin{aligned} & \text { 2/T } \\ & \text { 2/PA1 } \end{aligned}$ | 2/R | 2/I2 | 1/I3 | 1/NG | 1/PAD | 1/D |
|  | 1/AH1 | 1/UH3 | $\begin{aligned} & 2 \text { space } \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 3 \mathrm{~S} \\ & 2 / \end{aligned}$ | $\begin{aligned} & 2 \mathrm{~T} \\ & 2 \text { space } \end{aligned}$ | 2 R | $2!$ | 1 \# | $1+$ |
|  | 10 | 1 D | 1; | 18 |  |  |  |  |  |
| VAL | 2/PA1 <br> 2 space | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1 } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 2/AE1 } \\ & 29 \end{aligned}$ | $\begin{aligned} & \text { 2/UH3 } \\ & 28 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L} \\ & 2 \mathrm{~L} \end{aligned}$ | 2/PA1 <br> 2 space |  |  |
| VALue | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{V} \\ & 2 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{AE} 1 \\ & 29 \end{aligned}$ | $\begin{aligned} & \text { 1/AW2 } \\ & 12 \end{aligned}$ | $\begin{aligned} & 1 / L \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} 1 \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{IU} \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} 1 \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{U} 1 \\ & 2 \mathrm{U} \end{aligned}$ |
|  | $\begin{aligned} & \text { 2/PA1 } \\ & 2 \text { space } \end{aligned}$ |  |  |  |  |  |  |  |  |
| ArcTANgent | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 2/J } \end{aligned}$ | $\begin{aligned} & \text { 2/AH1 } \\ & \text { 1/I3 } \end{aligned}$ | $\begin{aligned} & \text { 2/UH3 } \\ & \text { 2/N } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R} \\ & 2 / \mathrm{T} \end{aligned}$ | $\begin{aligned} & \text { 1/K } \\ & \text { 2/PA1 } \end{aligned}$ | 1/PA $\emptyset$ | 2/T | 1/AE1 | 1/EH3 |


|  | 1/N | 2/D | $\begin{aligned} & \text { 2 space } \\ & \text { 2 J } \end{aligned}$ | $\begin{aligned} & 1 ; \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 28 \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{R} \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~K} \\ & 2 \text { space } \end{aligned}$ | 10 | 2 T |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 19 | 15 | 1 N | 2 D |  |  |  |  |  |
| EXPonent | $\begin{aligned} & \text { 2/PA1 } \\ & 2 / \mathrm{N} \end{aligned}$ | $\begin{aligned} & \text { 2/EH2 } \\ & 2 / \mathrm{T} \end{aligned}$ | $\begin{aligned} & \text { 1/EH2 } \\ & \text { 2/PA1 } \end{aligned}$ | 1/K | 2/PAØ | 2/S | 2/P | 1/01 | 1/02 |
|  | 1/N | 2/I2 | $\begin{aligned} & 2 \text { space } \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 24 \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 14 \\ & 2 \text { space } \end{aligned}$ | 1 K | $2 \emptyset$ | 2 S | 2 P |
|  | 10 | 1 [ | 1 N | $2!$ |  |  |  |  |  |
| RANDom | 2/PA1 | 1/R | 2/AE1 | 2/AE1 | 1/N | 1/D | 1/UH3 | 2/M | 2/PA1 |
|  | 2 space | 1 R | 29 | 29 | 1 N | 1 D | 18 | 2 M | 2 space |
| Arithmeticsign | 2/PA1 | 1/EH1 | 2/R | 1/I2 | 2/13 | 1/TH | 1/TH | 2/M | 2/EH3 |
|  | 2/T | 2/I2 | 3/K | 2/PAØ | 1/S | 1/AH2 | 1/AH2 | 1/EH3 | 1/Y |
|  | 2/EH3 |  | 2 space | 13 | 2 R | 1! | 2 \# | 1 = | $1=$ |
|  | 2/N | 2/PA1 | 2 T | $2!$ | 2 K | 20 | 1 S | 1 A | 1 A |
|  | 2 M | 25 | $2=$ |  |  |  |  |  |  |
|  | 15 | 1 Y | 2 N | 2 space |  |  |  |  |  |
| SQuare-Root | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 1/U1 } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S} \\ & 1 / \mathrm{T} \end{aligned}$ | $\begin{aligned} & \text { 1/K } \\ & 2 / \mathrm{PA1} \end{aligned}$ | 2/W | 3/EH2 | 1/EH2 | 2/R | 1/PA0 | 2/ER |
|  | 1/U1 | $\begin{aligned} & 2 \text { space } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 2 \mathrm{~S} \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~K} \\ & 2 \text { space } \end{aligned}$ | 2 W | 34 | 14 | 2 R | 10 |
|  | $2 /$ | 1 U |  |  |  |  |  |  |  |
| Less Than | 2/PA1 | 2/L | 2/EH2 | 1/EH3 | 2/S | 1/THV | 1/AE1 | 1/AE1 | 2/EH3 |
|  | 2 space | 2 L | 24 | 15 | 2 S | $2<$ | 19 | 19 |  |
|  | 2/N | 2/PA1 |  |  |  |  |  |  |  |
|  | 2 N | 2 space |  |  |  |  |  |  |  |
| Greater Than | 2/PA1 | 2/G | 2/R | 3/A2 | 2/A2 | 2/Y | 2/T | 1/ER | 1/THV |
|  | 2/EH3 | 1/N | 2/PA1 |  |  |  |  |  |  |
|  | 1/AE1 | 1/EH3 | 2 space | 2 G |  | 3 ) | 2 ) | 2 \& | 2 T |
|  |  |  | 25 | 1 N | 2 space |  |  |  |  |
|  | $1 /$ | $1<$ | 19 | 15 |  |  |  |  |  |
| Not Equal | $\begin{aligned} & \text { 2/PA1 } \\ & \text { 1/L } \end{aligned}$ | $\begin{aligned} & \text { 1/N } \\ & 2 / \mathrm{PA} 1 \end{aligned}$ | 2/AH1 | 3/UH3 | 2/T | 2/PAØ | 2/AY | 2/Y | 1/K |


|  | 1/W | 1/001 | $\begin{aligned} & 2 \text { space } \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~N} \\ & 2 \text { space } \end{aligned}$ | $2 ;$ | 38 | 2 T | $2 \emptyset$ | 2 * |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 \& | 1 K | 1 W | 1\% |  |  |  |  |  |
| And | 2/PA1 | 2/AE1 | 1/AE1 | 2/EH3 | 2/N | 2/D | 2/PA1 |  |  |
|  | 2 space | 29 | 19 | 25 | 2 N | 2 D | 2 space |  |  |
| Or | 2/PA1 | 1/01 | 2/02 | $1 / \mathrm{R}$ | 2/PA1 |  |  |  |  |
|  | 2 space | 10 | 2 [ | 1 R | 2 space |  |  |  |  |
| Not | 2/PA1 | 1/N | 1/AH1 | 2/UH3 | 2/T | 2/PA1 |  |  |  |
|  | 2 space | 1 N | 1; | 28 | 2 T | 2 space |  |  |  |
| Quote | 2/PA1 | 1/K | 2/W | 1/02 | 2/02 | 2/U1 | 2/T | 2/PA1 |  |
|  | 2 space | 1 K | 2 W | 1 [ | 2 [ | 2 U | 2 T | 2 space |  |
| Paren | 2/PA1 | 2/P | 1/EH3 | 1/EH2 | 2/EH3 | 2/R | 2/I2 | 2/N | 2/PA1 |
|  | 2 space | 2 P | 15 | 14 | 25 | 2 R | 2! | 2 N | 2 space |
| Pound | 2/PA1 | 2/P | 2/AH1 | 1/UH3 | 1/U1 | 1/N | 2/D | 2/PA1 |  |
|  | 2 space | 2 P | 2 ; | 18 | 1 U | 1 N | 2 D | 2 space |  |
| Comma | 2/PA1 | 2/K | 2/AH2 | 1/AH2 | 1/UH3 | 1/M | 1/UH3 | 2/UH3 | 2/PA1 |
|  | 2 space | 2 K | 2 A | 1 A | 18 | 1 M | 18 | 28 | 2 space |
| Open | 2/PA1 | 2/01 | 1/02 | 1/P | 1/I3 | 2/I3 | 2/N | 2/PA1 |  |
|  | 2 space | 20 | 1 [ | 1 P | 1 \# | 2 \# | 2 N | 2 space |  |
| Close | 2/PA1 | 2/K | 1/L | 2/UH3 | 2/02 | 2/02 | 1/U1 | 1/Z | 2/PA1 |
|  | 2 space | 2 K | 1 L | 28 | 2 [ | 2 [ | 1 U | 1 Z | 2 space |
| D Open | 2/PA1 | 2/D | 2/AY | 2/Y | 1/PA $\emptyset$ | 1/01 | 1/02 | 1/P | 2/I2 |
|  | 2 space | 2 D | 2 * | 2 \& | 10 | 10 | 1 [ | 1 P | $2!$ |
|  | 2/N | 2/PA1 |  |  |  |  |  |  |  |
|  | 2 N | 2 space |  |  |  |  |  |  |  |
| D Close | 2/PA1 | 2/D | 1/AY | 2/Y | 2/PA0 | 2/K | 1/L | 1/01 | 2/02 |
|  | 2 space | 2 D | 1 * | 2 \& | $2 \emptyset$ | 2 K | 1 L | 10 | 2 [ |
|  | 1/U1 | 2/Z | 2/PA1 |  |  |  |  |  |  |
|  | 1 U | 2 Z | 2 space |  |  |  |  |  |  |
| Record | 2/PA1 | 2/R | 3/EH3 | 2/EH3 | 1/K | 1/ER | 2/R | 1/D | 2/PA1 |
|  | 2 space | 2 R | 35 | 25 | 1 K | $1 /$ | 2 R | 1 D | 2 space |
| Size | 2/PA1 | 3/S | 2/AH2 | 1/AH2 | 1/EH3 | 1/I3 | 2/Y | 2/Z | 2/PA1 |
|  | 2 space | 3 S | 2 A | 1 A | 15 | 1 \# | 2 \& | 2 Z | 2 space |
| Write | 2/PA1 | 1/R | 3/UH3 | 2/AH2 | 1/Y | 1/T | 2/PA1 |  |  |
|  | 2 space | 1 R | 38 | 2 A | 1 \& | 1 T | 2 space |  |  |


| Drive | 2/PA1 | 2/D | 1/R | 3/AH2 | 2/AH2 | 1/EH3 | 1/Y | 1/V | 2/PA1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 space | 2 D | 1 R | 3 A | 2 A | 15 | 1 \& | 1 V | 2 space |
| Number | 2/PA1 | 2/N | 3/UH3 | 1/UH3 | 1/M | 1/B | 1/ER | 2/PA1 |  |
|  | 2 space | 2 N | 38 | 18 | 1 M | 1 B | $1 /$ | 2 space |  |
| Scratch | 2/PA1 | 3/S | 1/K | 2/R | 2/AE1 | 1/AE1 | 1/T | $2 / \mathrm{CH}$ | 2/PA1 |
|  | 2 space | 3 S | 1 K | 2 R | 29 | 19 | 1 T | 2 C | 2 space |
| Rename | 2/PA1 | 2/R | 1/Y | 2/N | 1/A2 | 1/A2 | 1/Y | 3/M | 2/PA1 |
|  | 2 space | 2 R | 1 Y | 2 N | $1)$ | 1 ) | 1 \& | 3 M | 2 space |
| Collect | 2/PA1 | 2/K | 1/UH3 | 2/UH3 | 2/L | 2/EH3 | 1/EH2 | 1/K | 1/T |
|  | 2 space | 2 K | 18 | 28 | 2 L | 25 | 14 | 1 K | 1 T |
|  | 2/PA1 |  |  |  |  |  |  |  |  |
|  | 2 space |  |  |  |  |  |  |  |  |
| Header | 2/PA1 | 2/H | 1/EH3 | 2/EH2 | 3/D | 2/R | 2/R | 2/PA1 |  |
|  | 2 space | 2 H | 15 | 24 | 3 D | 2 R | 2 R | 2 space |  |
| Directory | 2/PA1 | 1/D | 1/ER | 2/EH3 | 2/EH2 | 1/K | 2/PAØ | 2/T | 1/ER |
|  | 2 space | 1 D | $1 /$ | 25 | 24 | 1 K | $2 \emptyset$ | 2 T | $1 /$ |
|  | 2/Y | 2/PA1 |  |  |  |  |  |  |  |
|  | 2 \& | 2 space |  |  |  |  |  |  |  |
| Back Up | 2/PA1 | 2/B | 2/AE1 | 2/AE1 | 1/K | 1/UH3 | 1/UH2 | 2/P | 2/PA1 |
|  | 2 space | 2 B | 29 | 29 | 1 K | 18 | 17 | 2 P | 2 space |
| SYS | 2/PA1 | 2/S | 2/S | 3/I3 | 1/I3 | 2/I3 | 1/S | 2/PA1 |  |
|  | 2 space | 2 S | 2 S | 3 \# | 1 \# | 2 \# | 1 S | 2 space |  |
| TAB | 2/PA1 | 3/T | 2/AE1 | 1/AE1 | 1/EH3 | 1/B | 2/PA1 |  |  |
|  | 2 space | 3 T | 29 | 19 | 15 | 1 B | 2 space |  |  |
| Space | 2/PA1 | 3/S | 1/P | 2/A2 | 1/A2 | 1/AY | 2/Y | 2/S | 2/PA1 |
|  | 2 space | 3 S | 1 P | $2)$ | 1) | 1 * | 2 \& | 2 S | 2 space |
| CONCAT | 2/PA1 | 1/K | 2/AH1 | 1/UH3 | 2/N | 1/K | 1/AE1 | 2/AE1 | 2/EH3 |
|  | 2 space | 1 K | 2 ; | 18 | 2 N | 1 K | 19 | 29 | 25 |
|  | 2/T | 2/PA1 |  |  |  |  |  |  |  |
|  | 2 T | 2 space |  |  |  |  |  |  |  |
| APPEND | 2/PA1 | 1/UH1 | 3/P | 2/EH3 | 1/EH3 | 1/EH2 | 1/N | 2/D | 2/PA1 |
|  | 2 space | 16 | 2 P | 25 | 15 | 14 | 1 N | 2 D | 2 space |
| Calculator | 2/PA1 | 2/K | 3/AE1 | 2/UH3 | 1/L | 2/K | 2/UH3 | 2/L | 1/A2 |
|  | 2 space | 2 K | 39 | 28 | 1 L | 2 K | 28 | 2 L | 1) |
|  | 2/AY | 2/T | 1/ER | . |  |  |  |  |  |
|  | 2 * | 2 T | $1 /$ | . |  |  |  |  |  |


| . words | $1 / \mathrm{W}$ | $1 / \mathrm{ER}$ | $1 / \mathrm{R}$ | $1 / \mathrm{D}$ | $1 / \mathrm{Z}$ | $2 / \mathrm{PA} 1$ |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | 1 W | $1 /$ | 1 R | 1 D | 1 Z | 2 space |  |  |
| Basic |  |  |  |  |  |  |  |  |
|  | $2 / \mathrm{PA} 1$ | $1 / \mathrm{B}$ | $2 / \mathrm{A} 1$ | $1 / \mathrm{Y}$ | $1 / \mathrm{S}$ | $2 / \mathrm{I} 2$ | $1 / \mathrm{K}$ | $2 / \mathrm{PA} 1$ |
|  | 2 space | 1 B | $2 @$ | $1 \&$ | 1 S | $2!$ | 1 K | 2 space |

## Appendix

## в

## VOICE RESPONSE UNIT PROGRAMMING DICTIONARY

| Able | 2/PA1, 1 space | $\begin{aligned} & \text { 2/A2, } \\ & 2 \text { ) } \end{aligned}$ | $\begin{aligned} & \text { 1/A2, } \\ & 1 \text { ) } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{B}, \\ & 1 \mathrm{~B} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Account | 1/PA1, 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \text { U } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| Active | 2/PA1, 2 space | $\begin{aligned} & \text { 2/AE1, } \\ & 29 \end{aligned}$ | $\begin{aligned} & \text { 2/EH3, } \\ & 25 \end{aligned}$ | $\begin{aligned} & 1 / K, \\ & 1 / K \end{aligned}$ | $\begin{aligned} & 1 / \text { PA } \emptyset, \\ & 1 \emptyset \end{aligned}$ | $\begin{aligned} & \text { 1/T, } \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / 12 \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |
| Add | 2/PA1, 2 space | $\begin{aligned} & \text { 1/AE, } \\ & 1: \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |
| Address | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{UH} 2, \end{aligned}$ | $\begin{aligned} & \text { 2/D, } \\ & \text { 2 D, } \end{aligned}$ | $\begin{aligned} & 2 / R, \\ & 2 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/S, } \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |
| Adjust | 1/PA1, 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 / \mathrm{D} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{J}, \\ & 2 \mathrm{~J} \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{UH} 1, \\ & 16 \end{aligned}$ | $\begin{aligned} & \text { 1/S, } \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |
| Advance | 1/PA1, 1 space | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \text { D } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{V}, \\ & 2 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |
| After | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/AE, } \\ & 1: \ddagger \end{aligned}$ | $\begin{aligned} & 1 / F, \\ & 1 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | 1/ER |  |  |  |
| Afternoon | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & 1 / F, \\ & 1 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{IU}, \\ & 1( \end{aligned}$ | $\frac{1 / \mathrm{U}}{1}$ |
| Again | 1/PA1, 1 space | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{G}, \\ & 2 \mathrm{G} \end{aligned}$ | $\begin{aligned} & \text { 1/EH, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |
| Air | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 1/A2, } \\ & 1 \text { ) } \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / \end{aligned}$ |  |  |  |  |


| All | $\begin{aligned} & 2 / \mathrm{PA} 1, \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/AW, } \\ & 1, \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Am | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |  |  |
| A.M. | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/EH1, } \end{aligned}$ | $\begin{aligned} & \text { 1/A2, } \\ & \text { 1/UH3, } \end{aligned}$ | $\begin{aligned} & \text { 2/AY2, } \\ & \text { 1/M } \end{aligned}$ | 2/Y, | 2/PA0, | 2/PA | 2/EH3, | $\begin{aligned} & 1 \text { space } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1) \\ & 18 \end{aligned}$ |
|  | $\begin{aligned} & 2^{*} \\ & 1 \mathrm{M} \end{aligned}$ | 2 Y | $2 \emptyset$ | $2 \emptyset$ | 25 |  |  |  |  |
| America | $\begin{aligned} & \text { 1/PA1, } \\ & 1 / \mathrm{K} \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & \text { 1/UH1 } \end{aligned}$ | 3/M, | 2/EH2, | 1/EH2, | 1/R, | 1/EH3, | $\begin{aligned} & 1 \text { space } \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 17 \\ & 16 \end{aligned}$ |
|  | 3 M | 24 | 14 | 1 R | 15 |  |  |  |  |
| Amount | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{M} \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \text { ( } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| An | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |
| And | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |
| Answer | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 2/AE1, } \\ & 29 \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |
| Application | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/SH, } \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & \text { 1/UH3, } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P} \\ & 1 / \mathrm{N} \end{aligned}$ | 1/L, | 1/UH3, | 1/A1, | 1/Y1, | $\begin{aligned} & 1 \text { space } \\ & 1> \end{aligned}$ | $\begin{aligned} & 19 \\ & 18 \end{aligned}$ |
|  | $\begin{aligned} & 2 \mathrm{P} \\ & 1 \mathrm{~N} \end{aligned}$ | 1 L | 18 | 1 @ | 1 Y |  |  |  |  |
| Approve | 1/PA1, <br> 1 space | 1/UH2, 17 | $\begin{aligned} & 3 / \mathrm{P} \\ & 3 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / R, \\ & 2 R \end{aligned}$ | $\frac{1 / \mathrm{U}}{1}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |  |  |  |
| April | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{AY}, \\ & 2^{*} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L} \\ & 2 \mathrm{~L} \end{aligned}$ |  |  |
| Are | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{AH} 1 \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / / \end{aligned}$ |  |  |  |  |  |
| Assign | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 . \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |
| Assist | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\frac{1 / I}{1 "}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| At | 2/PA1, 2 space | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |  |


| Atlantic | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L}, \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| August | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 1/AW, } \\ & 1, \ddagger \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{G}, \\ & 2 \mathrm{G} \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Available | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/UH3, } \end{aligned}$ | $\begin{aligned} & \text { 1/UH2 } \\ & \text { 1/L } \end{aligned}$ | 2/V, | 2/A1, | 2/AY, | 1/L, | 1/UH3, | 1/B | $\begin{aligned} & 2 \text { space } \\ & 18 \end{aligned}$ |
|  | $\begin{aligned} & 17 \\ & 1 \mathrm{~L} \end{aligned}$ | 2 V | 1 @ | $1 *$ | 1 L | 18 | 1 B |  |  |
| Average | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V}, \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2 \\ & 1! \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{J} \\ & 1 \mathrm{~J} \end{aligned}$ |  |
| Away | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{W} \\ & 2 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & \text { 1/AY } \\ & 1 * \end{aligned}$ |  |  |  |
| Back | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 3/B, } \\ & 3 \text { B } \end{aligned}$ | $\begin{aligned} & \text { 2/AE1, } \\ & 29 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |  |  |  |  |
| Be | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 2/B, } \\ & 2 \text { B } \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1 \\ & 1 \mathrm{E} \end{aligned}$ |  |  |  |  |  |
| Because | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{B}, \\ & 1 \mathrm{~B} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} 1, \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & \text { 2/UH2, } \\ & 27 \end{aligned}$ | $\begin{aligned} & 1 / Z \\ & 1 \mathrm{Z} \end{aligned}$ |  |  |
| Been | 1/PA1, <br> 1 space | $\begin{aligned} & 2 / \mathrm{B}, \\ & 2 \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |
| Before | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/B, } \\ & 1 \text { B } \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 3 / F, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / 0 \\ & 1 \backslash \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |
| Begin | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/B, } \\ & 1 \text { B } \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 3 / G, \\ & 3 G \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & \text { 1/I1, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |
| Benefit | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 3/B, } \\ & 3 \text { B } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 1 \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{F}, \\ & 2 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| Between | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/B, } \\ & 1 \text { B } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 3 / T, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / W, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |
| But | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/B, } \\ & 1 \text { B } \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T} \\ & 2 \mathrm{~T} \end{aligned}$ |  |  |  |  |
| By | 1/PA1, <br> 1 space | $\begin{aligned} & 2 / \mathrm{B}, \\ & 2 \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1 } \\ & 1 \mathrm{E} \end{aligned}$ |  |  |  |  |  |
| Call | 2/PA1, <br> 2 space <br> $\ddagger$ when | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ <br> sing the INP | $\begin{aligned} & 1 / \mathrm{AW}, \\ & 1 ; \\ & \text { UT statemer } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ <br> t, this char | cter must b | shifted. |  |  |  |


| Can | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AE}, \\ & 1: \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Car | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{K}, \\ & 3 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/AH, } \\ & 1] \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |  |  |
| Care | 2/PA1, $2 \text { space }$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/A2, } \\ & 1 \text { ) } \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |  |
| Careful | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/A2, } \\ & 1 \text { ) } \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / F, \\ & 1 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |
| Case | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 @ \end{aligned}$ | $\begin{aligned} & 1 / A Y, \\ & 1 * \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |  |
| Cash | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AE}, \\ & 1: \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{SH} \\ & 1> \end{aligned}$ |  |  |  |  |
| Caution | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{K} \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 2/AW, } \\ & 2, \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/SH, } \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |
| Cents | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 3, \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |  |
| Change | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{CH}, \\ & 2 \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { 2/EH3, } \\ & 25 \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / Y, \\ & 1 \& \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{J} \\ & 1 \mathrm{~J} \end{aligned}$ |
| Charge | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{CH}, \\ & 2 \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { 1/AH, } \\ & 1] \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \text { D } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{J} \\ & 1 \mathrm{~J} \end{aligned}$ | . |  |
| Check | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 2/T, } \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{CH}, \\ & 2 \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { 1/EH, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / K \\ & 1 \mathrm{~K} \end{aligned}$ |  |  |  |  |
| City | 2/PA1, <br> 2 space | $\begin{aligned} & 3 / S \\ & 3 S \end{aligned}$ | $\begin{aligned} & \text { 1/In, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{DT}, \\ & 1 \mathrm{Q} \end{aligned}$ | $\begin{aligned} & \text { 1/E1 } \\ & 1 \mathrm{E} \end{aligned}$ |  |  |  |  |
| Class | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AE}, \\ & 1: \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / S \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |  |
| Classification | $\begin{aligned} & \text { 2/PA1, } \\ & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \\ & 2 @ \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 / \mathrm{A} 1, \\ & 1 \mathrm{~L} \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L} \\ & 1 / \mathrm{Y} 1, \\ & 19 \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & \text { 1/SH, } \\ & \text { 2 S } \\ & 18 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 1 / \mathrm{UH} 3, \\ & 1 \propto \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 / \mathrm{N} \\ & 2 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{F} \\ & 1 \text { \# } \end{aligned}$ | 1/I3, | $\begin{aligned} & \text { 2 space } \\ & 2 \mathrm{~K} \end{aligned}$ |
| Clear | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 2 / I 3 \\ & 2 \# \end{aligned}$ | $\begin{aligned} & \text { 1/I1, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |
| Clearance | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{K} \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{I} 3 \\ & 2 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / S \\ & 1 \mathrm{~S} \end{aligned}$ |
| Clock | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L}, \\ & 2 \mathrm{~L} \end{aligned}$ | $1 / \mathrm{AH} 1$, $1 ;$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |  |  |  |

[^3]| Close * | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / 01 \\ & 10 \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \text { U } \end{aligned}$ | $\begin{aligned} & 1 / Z \\ & 1 \mathrm{Z} \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Close * | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / 01 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} 1, \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |
| Code | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / 02, \\ & 1[ \end{aligned}$ | $\begin{aligned} & 1 / 01 \\ & 10 \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |
| Collect | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/K } \end{aligned}$ | $\begin{aligned} & \text { 2/K, } \\ & \text { 1/PA } 0, \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & \text { 1/T } \end{aligned}$ | 3/L, | 2/UH3, | 1/EH2, | 1/EH2, | $\begin{aligned} & 1 \text { space } \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 2 \mathrm{~K} \\ & 1 \text { space } \end{aligned}$ |
|  | $\begin{aligned} & 17 \\ & 1 \mathrm{~T} \end{aligned}$ | 3 L | 28 | 14 | 14 |  |  |  |  |
| Commit | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{M}, \\ & 3 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/I1, } \\ & 1 \mathrm{I} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Complete | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{P}, \\ & 3 \mathrm{P} \end{aligned}$ | 1/L, | $\begin{aligned} & 1 / E, \\ & 1 . \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| Condition | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/D, } \\ & 2 \text { D, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{SH}, \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |
| Confirm | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\frac{1 / \mathrm{N}}{\mathrm{~N}}$ | $\begin{aligned} & 3 / F, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |
| Contact | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/PA0, } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 1 / \mathrm{T} \end{aligned}$ | 1/AH1, | 1/N, | 1/T, | 1/AE1, | 1/EH3, | 1/K, | $\begin{aligned} & \text { 2 space } \\ & 1 \emptyset \end{aligned}$ |
|  | $\begin{aligned} & 2 \mathrm{~K} \\ & 1 \mathrm{~T} \end{aligned}$ | 1 ; | 1 N | 1 T | 19 | 13 | 1 K |  |  |
| Correct | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 2 / R, \\ & 2 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{PA} \emptyset \\ & 1 \emptyset \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| Cost | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AW}, \\ & 1, \ddagger \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |
| Customer | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 2/UH2, } \\ & 27 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/M, } \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |
| Daily | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 2/D, } \\ & 2 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 2/A1, } \\ & 2 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} \\ & 1 \& \end{aligned}$ | $1 / \mathrm{L},$ | $\begin{aligned} & 1 / Y \\ & 1 \& \end{aligned}$ |  |  |  |
| Data | 2/PA1, $2 \text { space }$ | $\begin{aligned} & \text { 3/D, } \\ & 3 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{DT}, \\ & 1 \mathrm{Q} \end{aligned}$ | $\begin{aligned} & \text { 1/UH2 } \\ & 17 \end{aligned}$ |  |  |  |
| Date | 2/PA1, $2 \text { space }$ | $\begin{aligned} & \text { 3/D, } \\ & 2 \text { D, } \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1 * \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Day | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 3/D, } \\ & 3 \text { D } \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY } \\ & 1^{*} \end{aligned}$ |  |  |  |  |


| December | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{Y} 1, \\ & 2 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 2, \\ & 24 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 2, \\ & 24 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/B, } \\ & 1 \text { B } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R} \\ & 1 \mathrm{R} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Deduct | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & \text { 3/D, } \\ & 3 \text { D } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{UH} 2, \\ & 1 \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{PA} \emptyset, \\ & 1 \emptyset \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |
| Defer | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{F}, \\ & 2 \mathrm{~F} \end{aligned}$ | 1/ER, | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |
| Deliver | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / 12, \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V}, \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / \end{aligned}$ |  |  |
| Demand | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \text { D } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 3, \\ & 15 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{M}, \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |
| Departure | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & 1 / 13, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | 1/AH1, | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{CH}, \\ & 1 \mathrm{C} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R} \\ & 1 \mathrm{R} \end{aligned}$ |
| Deposit | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1D, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3 \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{P}, \\ & 3 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{AH} 1, \\ & 2 ; \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Z}, \\ & 1 \mathrm{Z} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $1 / \mathrm{T}$ 1 T |
| Determine | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \text { D, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{T}, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\underset{1 / R,}{1 / R}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |
| Did | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & \text { 2/D, } \\ & 2 \text { D, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} \\ & 1 " \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |  |
| Difference | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / F, \\ & 1 F \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |
| Direct | 1/PA1, 1 space | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & \text { 1/ER, } \\ & 1 / \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{PA} \emptyset, \\ & 2 \emptyset \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |
| Direction | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & \text { 2/D, } \\ & \text { 2 D, } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{ER}, \\ & 2 / \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/SH, } \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |
| Distance | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 2/I1, } \\ & 2 \mathrm{I} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 2, \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |
| Divide | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & 1 / 13, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{V}, \\ & 3 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |
| Do | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 3/D, } \\ & \text { 3 D, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{IU}, \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} \\ & 1 \end{aligned}$ |  |  |  |  |  |
| Dollar | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 3/D, } \\ & 3 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{UH} 3, \\ & 28 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $1 / \mathrm{L},$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R} \\ & 1 \mathrm{R} \end{aligned}$ |  |  |
| Down | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 2 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |

East

| 2/PA1, | 1/E, | $1 / \mathrm{Y} 1$, | $1 / \mathrm{S}$, | $1 / \mathrm{T}$ |
| :--- | :--- | :--- | :--- | :--- |
| 2 space | 1. | 1 Y | 1 S | 1 T |


| Economic | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 1 / 12 \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Effective | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{UH} 2, \\ & 17 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{F}, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{PA} \emptyset, \\ & 1 \emptyset \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |
| Eight | 1/PA1, 1 space | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY}, \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{Y} 1, \\ & 2 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T} \\ & 2 \mathrm{~T} \end{aligned}$ |  |  |  |  |
| Eighteen | 1/PA1, 1 space | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY}, \\ & 1 * \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{Y} 1, \\ & 2 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{PA} \emptyset, \\ & 2 \emptyset \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1, \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |
| Eighty | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/A1, } \\ & 2 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} 1, \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \text { D } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} \\ & 1 \& \end{aligned}$ |  |  |  |
| Electric | $\begin{aligned} & \text { 1/PA1 } \\ & \text { 1/I3 } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{UH} 3, \\ & 1 / \mathrm{K} \end{aligned}$ | 3/L, | 1/EH1, | 1/K, | 1/PA0, | 1/T, | 1/R, | $\begin{aligned} & 1 \text { space } \\ & 1 \# \end{aligned}$ |
|  | $\begin{aligned} & 18 \\ & 1 \mathrm{~K} \end{aligned}$ | 3 L | 13 | 1 K | 10 | 1 T | 1 R |  |  |
| Eleven | 1/PA1, 1 space | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 3/L, } \\ & 3 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V}, \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 3, \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |
| Employee | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{EH} 2, \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{P}, \\ & 3 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 2 / 01 \\ & 20 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 \# \end{aligned}$ | $\underset{1}{1 / \mathrm{E} 1,}$ | $\begin{aligned} & 1 / \mathrm{E} 1 \\ & 1 \mathrm{E} \end{aligned}$ |
| Enter | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / E R \\ & 1 / \mathrm{L} \end{aligned}$ |  |  |  |  |
| Even | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $1 / \mathrm{E},$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |
| Ever | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 1, \\ & 23 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R} \\ & 1 \mathrm{R} \end{aligned}$ |  |  |  |  |
| Except | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{EH} 2, \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{PA} 0, \\ & 10 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| Exception | 1/PA1, 1 space | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{SH}, \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |
| Exchange | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/Y1, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 3, \\ & 1 / \mathrm{N}, \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & \text { 1/D, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 / \mathrm{J} \end{aligned}$ | 2/T, | 3/CH, | 1/A1, | 1/AY, | $\begin{aligned} & 1 \text { space } \\ & 1 \mathrm{Y} \end{aligned}$ |
|  | $\begin{aligned} & 15 \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~K} \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~S} \\ & 1 \mathrm{~J} \end{aligned}$ | 2 T | 3 C | 1 @ | 1* |  |  |
| Excuse * | 1/PA1, 1 space | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/S, } \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} 1, \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{IU}, \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{IU}, \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Z} \\ & 2 \mathrm{Z} \end{aligned}$ |
| Expand | 1/PA1, 1 space | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P} \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |


| Expense | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 1/EH, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 \text { space } \\ & 18 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Experience | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/UH3, } \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & \text { 1/N, } \end{aligned}$ | $\begin{aligned} & \text { 1/K, } \\ & 1 / \mathrm{S} \end{aligned}$ | 3/S, | 3/P, | 1/I1, | 1/E, | 1/Y1, |  |
|  | $\begin{aligned} & 15 \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~K} \\ & 1 \mathrm{~S} \end{aligned}$ | 3 S | 3 P | 1 I | 1. | 1 Y |  |  |
| Express | 1/PA1, 1 space | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P} \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |
| Extend | 1/PA1, 1 space | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |
| Extensive | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/I2, } \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 1 / \mathrm{V} \end{aligned}$ | $1 / \mathrm{K}$, | 2/S, | 2/T, | 1/EH1, | 1/N, | 1/S, | $\begin{aligned} & 1 \text { space } \\ & 1! \end{aligned}$ |
|  | $\begin{aligned} & 14 \\ & 1 \mathrm{~V} \end{aligned}$ | 1 K | 2 S | 2 T | 13 | 1 N | 1 S |  |  |


| Face | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{F}, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1 * \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Far | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{F}, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |  |
| Fast | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{F}, \\ & 2 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/AE, } \\ & 1: \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| February | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/I3, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{F}, \\ & 1 / \mathrm{R}, \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & \text { 2/E1 } \end{aligned}$ | 1/B, | 2/Y1, | 1/U1, | 1/EH3, | $\begin{aligned} & 2 \text { space } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~F} \\ & 1 \mathrm{R} \end{aligned}$ |
|  | $\begin{aligned} & 23 \\ & 2 \mathrm{E} \end{aligned}$ | 1 B | 2 Y | 1 U | 15 |  |  |  |  |

Feet $\begin{array}{llll}2 / \text { PA1, } & 2 / \mathrm{F}, & 1 / \mathrm{E}, & 1 / \mathrm{T} \\ 2 \text { space } & 2 \mathrm{~F} & 1 . & 1 \mathrm{~T}\end{array}$
Few 2/PA1, 3/F, 1/Y, 1/IU, 1/U1
2 space $3 \mathrm{~F} \quad 1 \& \quad 1$ ( 1 U
$\begin{array}{llllllll}\text { 1/PA1, } & 1 / \mathrm{F}, & 1 / \mathrm{I} 1, & 2 / \mathrm{F}, & 2 / \mathrm{T}, & 1 / \mathrm{E} 1, & 1 / \mathrm{E} 1, & 1 / \mathrm{N} \\ 1 \text { space } & 1 \mathrm{~F} & 1 \mathrm{I} & 2 \mathrm{~F} & 2 \mathrm{~T} & 1 \mathrm{E} & 1 \mathrm{E} & 1 \mathrm{~N}\end{array}$
Fifty

Fight
2/PA1, 2/F, 2/I1, 1/F, 1/T, 1/Y 2 space $2 \mathrm{~F} \quad 2 \mathrm{I} \quad 1 \mathrm{~F} \quad 1 \mathrm{~T} \quad 1 \&$

2/PA1, 2/F, 1/UH3, 1/AH2, 1/E1, 1/T
$\ddagger$ When using the INPUT statement, this character must be shifted.

| File | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{F}, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / L \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fill | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{F} \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/I1, } \\ & 1 \mathrm{I} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\underset{1}{1 / L}$ |  |  |  |  |
| Find | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{F}, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 /[3, \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| Five | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{F}, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |  |  |  |
| For | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{F}, \\ & 2 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / 0 \\ & 1 \backslash \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 \mathrm{R} \end{aligned}$ |  |  |  |  |  |
| Force | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{F}, \\ & 2 \mathrm{~F} \end{aligned}$ | $1 / 0 \text {, }$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / S \\ & 1 S \end{aligned}$ |  |  |  |  |
| Form | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{F}, \\ & 2 \mathrm{~F} \end{aligned}$ | $1 / 0,$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |  |  |
| Forty | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{F}, \\ & 2 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / 01, \\ & 10 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{DT}, \\ & 1 \mathrm{Q} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Forward | 2/PA1, 2 space | $\begin{aligned} & 3 / F, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / 01, \\ & 10 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{ER}, \\ & 1 / \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| Fourteen | 1/PA1, 1 space | $\begin{aligned} & 1 / F, \\ & 1 F \end{aligned}$ | $\begin{aligned} & 1 / 0, \\ & 1 \backslash \end{aligned}$ | $\begin{aligned} & 2 / R, \\ & 2 R \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{PA} \emptyset, \\ & 2 \emptyset \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1, \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |
| Fourth | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 3 / F, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / 0, \\ & 1 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{TH} \\ & 1= \end{aligned}$ |  |  |  |  |
| Friday | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / F, \\ & 1 F \end{aligned}$ | $\begin{aligned} & 2 / R, \\ & 2 R \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1, \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 @ \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1^{*} \end{aligned}$ |  |
| From | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 3 / F, \\ & 3 F \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |  |  |
| Front | 2/PA1, 2 space | $\begin{aligned} & 3 / F, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Future | 2/PA1, 2 space | $\begin{aligned} & 3 / F, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 2/Y1, } \\ & 2 \mathrm{Y} 1, \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/CH, } \\ & 1 \mathrm{C} \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / \end{aligned}$ |  |  |
| Gasoline | 2/PA1, 2 space | $\begin{aligned} & 1 / G, \\ & 1 G G \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\underset{1}{1 / S}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{L}, \\ & 3 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / E, \\ & 1 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |
| Glide | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{G}, \\ & 2 \mathrm{G} \end{aligned}$ | $\begin{aligned} & \text { 1/L, } \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |
| Government | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{G}, \\ & 2 \mathrm{G} \end{aligned}$ | $\begin{aligned} & \text { 2/UH1, } \\ & 26 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R . \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |


| Grade | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 3 / G, \\ & 3 \mathrm{G} \end{aligned}$ | $1 / R,$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1 * \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Great | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{G}, \\ & 2 \mathrm{G} \end{aligned}$ | $1 / R,$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Ground | 2/PA1, <br> 2 space | $\begin{aligned} & 3 / G, \\ & 3 \mathrm{G} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| Guarantee | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{G}, \\ & 1 \mathrm{G} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{T}, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / E, \\ & 1 . \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1 \\ & 1 \mathrm{E} \end{aligned}$ |
| Guard | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{G}, \\ & 3 \mathrm{G} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |
| Guess | 2/PA1, <br> 2 space | $\begin{aligned} & 3 / G, \\ & 3 G G \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH}, \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |  |  |  |
| Guide | 2/PA1, $2 \text { space }$ | $\begin{aligned} & 2 / \mathrm{G}, \\ & 2 \mathrm{G} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |


| Had | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AE}, \\ & 1: \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hair | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & \text { 1/A2, } \\ & 1) \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |
| Hand | 2/PA1, 2 space | $\begin{aligned} & 3 / \mathrm{H}, \\ & 3 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AE}, \\ & 1: \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| Handle | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & \text { 2/AE1, } \\ & 29 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $1 / \mathrm{N},$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |
| Happen | 2/PA1, <br> 2 space | $\begin{aligned} & 3 / \mathrm{H}, \\ & 3 \mathrm{H} \end{aligned}$ | $\begin{aligned} & \text { 2/AE1, } \\ & 29 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |
| Hardware | 2/PA1, 2 space | $\begin{aligned} & 3 / \mathrm{H}, \\ & 3 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |
| Has | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AE}, \\ & 1: \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / Z \\ & 1 Z \end{aligned}$ |  |  |  |
| Have | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AE}, \\ & 1: \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |  |  |  |
| He | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/H, } \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} \\ & 1 . \end{aligned}$ |  |  |  |  |  |
| Headlight | 2/PA1, 2 space | $\underset{2}{2 / \mathrm{H}}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 2/D, } \\ & 2 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/L, } \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 2, \\ & 1 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ |

$\ddagger$ When using the INPUT statement, this character must be shifted.

| Hear | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / E, \\ & 1 \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Heard | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / E R, \\ & 1 / / \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |
| Heart | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |
| Hello | 2/PA1, <br> 2 space | $\begin{aligned} & 3 / \mathrm{H}, \\ & 3 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 1, \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / 02, \\ & 1[ \end{aligned}$ | $\begin{aligned} & \text { 2/U1 } \\ & 2 \mathrm{U} \end{aligned}$ |  |
| Help | 2/PA1, 2 space | $\begin{aligned} & 3 / \mathrm{H}, \\ & 3 \mathrm{H} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/L, } \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ |  |  |  |
| Her | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & \text { 1/ER, } \\ & 1 / \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R} \\ & 1 \mathrm{R} \end{aligned}$ |  |  |  |  |  |
| High | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1 } \\ & 1 \mathrm{E} \end{aligned}$ |  |  |  |  |  |
| Him | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & \text { 1/I1, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |  |  |  |
| Hire | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / \end{aligned}$ |  |  |  |  |
| His | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & \text { 1/I, } \\ & 1 " \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Z} \\ & 1 \mathrm{Z} \end{aligned}$ |  |  |  |  |  |
| How | 2/PA1, 2 space | $\begin{aligned} & 3 / \mathrm{H}, \\ & 3 \mathrm{H} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / 02, \\ & 1[ \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} 1 \\ & 1 \mathrm{U} \end{aligned}$ |  |  |  |  |
| However | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/V, } \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{R} \\ & 2 \mathrm{R} \end{aligned}$ |  |
| Hundred | 2/PA1, <br> 2 space | $\begin{aligned} & 3 / \mathrm{H}, \\ & 3 \mathrm{H} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D } \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |
| Hurry | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{H}, \\ & 2 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{ER}, \\ & 1 / \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / Y \\ & 1 \& \end{aligned}$ |  |  |  |  |
| I | 2/PA1, 2 space | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1 \\ & 1 \mathrm{E} \end{aligned}$ |  |  |  |  |  |
| If | 2/PA1, <br> 2 space | $\frac{1 / I}{1 "}$ | $\begin{aligned} & 1 / \mathrm{F} \\ & 1 \mathrm{~F} \end{aligned}$ |  |  |  |  |  |  |
| Impatient | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/EH3, } \end{aligned}$ | $\begin{aligned} & \text { 1/I1, } \\ & 1 / \mathrm{N} \end{aligned}$ | $\begin{aligned} & \text { 2/M, } \\ & 1 / \mathrm{T} \end{aligned}$ | 3/P, | 2/A1, | 1/AY, | 1/SH, | $\begin{aligned} & 1 \text { space } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 \mathrm{I} \\ & 1 \mathrm{~N} \end{aligned}$ |
|  | $\begin{aligned} & 2 \mathrm{M} \\ & 1 \mathrm{~T} \end{aligned}$ | 3 P | 2 @ | 1* | $1>$ |  |  |  |  |


| Imperative | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/T, } \end{aligned}$ | $\begin{aligned} & \text { 1/I2, } \\ & \text { 1/I3 } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{M} \\ & 1 / \mathrm{V} \end{aligned}$ | 2/P, | 2/EH1, | 1/R, | 1/EH3, | $\begin{aligned} & 1 \text { space } \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1! \\ & 1 \text { \# } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{aligned} & 2 \mathrm{M} \\ & 1 \mathrm{~V} \end{aligned}$ | 2 P | 23 | 1 R | 15 |  |  |  |  |
| Imply | 1/PA1, 1 space | $\begin{aligned} & \text { 1/I1, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{M} \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P} \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / Y \\ & 1 \& \end{aligned}$ |  |  |
| Impossible | 1/PA1, 1 space | $\begin{aligned} & \text { 1/I2, } \\ & 1! \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{M} \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{P} \\ & 3 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/B, } \\ & 1 \text { B } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |
| Impress | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{I} 2 \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P} \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / R, \\ & 2 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |
| Improvement | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/EH3, } \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & \text { 1/N, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 / \mathrm{T} \end{aligned}$ | 3/P, | 1/R, | 2/U1, | 1/V, | 1/M, | $\begin{aligned} & 1 \text { space } \\ & 15 \end{aligned}$ |
|  | $\begin{aligned} & 1 \# \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{M} \\ & 1 \mathrm{~T} \end{aligned}$ | 3 P | 1 R | 2 U | 1 V | 1 M |  |  |
| In | $2 /$ PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{I}, \\ & 1 " \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |  |  |
| Inch | 2/PA1, 2 space | $\begin{aligned} & \text { 1/I1, } \\ & 1 \mathrm{I} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{CH} \\ & 1 \mathrm{C} \end{aligned}$ |  |  |  |  |
| Include | 1/PA1, 1 space | $\begin{aligned} & \text { 1/[3, } \\ & 1 \text { \# } \end{aligned}$ | $1 / \mathrm{N},$ | $\begin{aligned} & 3 / \mathrm{K}, \\ & 3 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{I} \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |
| Inconsistent | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/S, } \end{aligned}$ | $\begin{aligned} & \text { 2/I1, } \\ & 1 / \mathrm{T} \end{aligned}$ | 1/N, 1/EH3, | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 / \mathrm{N}, \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 1 / \mathrm{T} \end{aligned}$ | 2/N, | 3/S, | 1/I2, | $\begin{aligned} & 2 \text { space } \\ & 1 \mathrm{~S} \end{aligned}$ |
|  | $\begin{aligned} & 2 \mathrm{I} \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~N} \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~K} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 18 \\ & 1 \mathrm{~T} \end{aligned}$ | 2 N | 3 S | $1!$ |  |  |
| Inconvenience | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/N, } \end{aligned}$ | $\begin{aligned} & \text { 2/11, } \\ & \text { 1/Y1, } \end{aligned}$ | $1 / \mathrm{N}$, <br> 1/UH3, | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 / \mathrm{N}, \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{UH} 3, \\ & 1 / \mathrm{S} \end{aligned}$ | 2/N, | 3/V, | 1/E1, | $\begin{aligned} & 2 \text { space } \\ & 1 \mathrm{~N} \end{aligned}$ |
|  | $\begin{aligned} & 2 \mathrm{I} \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~N} \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~K} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 18 \\ & 1 \mathrm{~S} \end{aligned}$ | 2 N | 3 V | 1 E |  |  |
| Increase | 1/PA1, 1 space | $\begin{aligned} & \text { 1/I2, } \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{K}, \\ & 3 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/E, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |
| Independent | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/D, } \end{aligned}$ | $\begin{aligned} & \text { 1/I2, } \\ & \text { 1/I3 } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 / \mathrm{N} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 / T \end{aligned}$ | 1/Y1, | 3/P, | 1/EH1, | 1/N, | $\begin{aligned} & 2 \text { space } \\ & \text { 1 D } \end{aligned}$ |
|  | $\begin{aligned} & 1! \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~N} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{D} \\ & 1 \mathrm{~T} \end{aligned}$ | 1 Y | 3 P | 13 | 1 N |  |  |
| Indicate | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{I} 2, \\ & 2! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 @ \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY}, \\ & 1 * \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |


| Inferior | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{F}, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{E} 1, \\ & 2 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R}, \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} \\ & 1 \& \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{ER} \\ & 1 / \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Influence | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/I1, } \\ & 2 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{F}, \\ & 2 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $1 / \mathrm{N},$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |
| Inform | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $1 / \mathrm{N},$ | $\begin{aligned} & 3 / F, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / 0, \\ & 1 \backslash \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |
| Information | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2/SH, } \end{aligned}$ | $\begin{aligned} & \text { 1/I2, } \\ & \text { 1/UH3, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 / \mathrm{N} \end{aligned}$ | 1/F, | 2/R, | 3/M, | 1/A1, | 1/AY, | $\begin{aligned} & 2 \text { space } \\ & 2> \end{aligned}$ |
|  | $\begin{aligned} & 1! \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~N} \\ & 1 \mathrm{~N} \end{aligned}$ | 1 F | 2 R | 3 M | 1 @ | $1^{*}$ |  |  |
| Initial | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\underset{2}{2 / \mathrm{N}},$ | $\begin{aligned} & \text { 2/I1, } \\ & 2 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{SH}, \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |
| Inquire | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 \# \end{aligned}$ | $\underset{2}{2 / \mathrm{N}},$ | $\begin{aligned} & 3 / K, \\ & 3 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 2, \\ & 1 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |
| Insert | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / 12, \\ & 1! \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{ER}, \\ & 1 / \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |
| Inside | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / 13, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/S, } \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 \text { : } \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| Instead | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/EH, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| Instruct | 1/PA1, 1 space | $\begin{aligned} & 1 / 12, \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |
| Insufficient | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/EH3, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1 / \mathrm{N}, \end{aligned}$ | $\begin{aligned} & \text { 2/N, } \\ & 1 / \mathrm{T} \end{aligned}$ | 1/S, | 1/UH3, | 2/F, | 1/I2, | 1/SH | $\begin{aligned} & 2 \text { space } \\ & 13 \end{aligned}$ |
|  | $\begin{aligned} & 1! \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 2 \mathrm{~N} \\ & 1 \mathrm{~T} \end{aligned}$ | 1 S | 18 | 2 F | $1!$ | $1>$ |  |  |
| Insurance | 1/PA1, 1 space | $\begin{aligned} & \text { 1/I1, } \\ & 1 \mathrm{I} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{SH}, \\ & 3> \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |
| Intelligibility | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 2/J, } \end{aligned}$ | $\begin{aligned} & \text { 1/I2, } \\ & \text { 1/UH3, } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 / \mathrm{B} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 / \mathrm{I} 2, \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & \text { 1/L, } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L} \\ & 1 / \mathrm{I} 3, \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & \text { 1/T, } \end{aligned}$ | $\begin{aligned} & \text { 2/D, } \\ & 2 / \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 \text { space } \\ & 2 \mathrm{~J} \end{aligned}$ |
|  | $\begin{aligned} & 1! \\ & 18 \end{aligned}$ | $\begin{aligned} & 2 \mathrm{~N} \\ & 2 \mathrm{~B} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~T} \\ & 1! \end{aligned}$ | 13 14 | 2 L 1 \# | $\begin{aligned} & 18 \\ & 1 \mathrm{~T} \end{aligned}$ | $2{ }_{2}^{2} \mathrm{P}$ |  |  |
| Intend | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{T}, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |
| Interest | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / 12 \\ & 2! \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 2, \\ & 14 \end{aligned}$ | $\begin{aligned} & \text { 1/S, } \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |


| Interrupt | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/ER, } \\ & 1 / / \end{aligned}$ | $\begin{aligned} & \text { 2/UH1, } \\ & 26 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T} \\ & 2 \mathrm{~T} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Into | 1/PA1, 1 space | $\begin{aligned} & \text { 1/In, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} \\ & 1 \end{aligned}$ |  |  |  |  |
| Introduced | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/U1, } \end{aligned}$ | $\begin{aligned} & \text { 1/I2, } \\ & \text { 1/S, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 / \mathrm{T} \end{aligned}$ | 1/T, | 2/R, | 1/UH3, | 2/D, | 1/IU, | $\begin{aligned} & 1 \text { space } \\ & 1 \mathrm{U} \end{aligned}$ |
|  | $\begin{aligned} & 1! \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~N} \\ & 1 \mathrm{~T} \end{aligned}$ | 1 T | 2 R | 18 | 2 D | $1($ |  |  |
| Investigate | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/G, } \end{aligned}$ | $\begin{aligned} & \text { 1/I2 } \\ & \text { 1/A2, } \end{aligned}$ | $\begin{aligned} & \text { 2/N, } \\ & \text { 2/Y1, } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{V}, \\ & 2 / \mathrm{T} \end{aligned}$ | 2/EH1, | 1/S, | 1/T, | 1/I3, | $\begin{aligned} & 1 \text { space } \\ & 1 \mathrm{G} \end{aligned}$ |
|  | $\begin{aligned} & 1 \text { @ } \\ & 1) \end{aligned}$ | $\begin{aligned} & 2 \mathrm{~N} \\ & 2 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 2 \mathrm{~V} \\ & 2 \mathrm{~T} \end{aligned}$ | 23 | 1 S | $1 \%$ | 1 \# |  |  |
| Is | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / I \\ & 1 " \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{Z} \\ & 2 \mathrm{Z} \end{aligned}$ |  |  |  |  |  |  |
| It | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{I} 1, \\ & 1 \mathrm{I} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |  |  |
| Jacket | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{D}, \\ & 2 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{J}, \\ & 2 \mathrm{~J}, \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| January | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/EH3, } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{D} \\ & 1 / \mathrm{I} 3 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{J}, \\ & 1 / \mathrm{R}, \end{aligned}$ | $\begin{aligned} & \text { 2/AE1, } \\ & \text { 2/E1 } \end{aligned}$ | 1/I3, | 1/N, | 2/Y1, | 1/U1, | $\begin{aligned} & 2 \text { space } \\ & 25 \end{aligned}$ |
|  | $\begin{aligned} & 2 \mathrm{D} \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~J} \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 29 \\ & 2 \mathrm{E} \end{aligned}$ | 1 \# | 1 N | 2 Y | 1 U |  |  |
| Joint | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 2/D, } \\ & 2 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{J}, \\ & 2 \mathrm{~J} \end{aligned}$ | $\begin{aligned} & 1 / 01 \\ & 10 \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1 * \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| July | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/J, } \\ & 1 \mathrm{~J} \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\begin{aligned} & \text { 3/L, } \\ & 3 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1 \\ & 1 \mathrm{E} \end{aligned}$ |  |  |
| June | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{D}, \\ & 2 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{J}, \\ & 3 \mathrm{~J} \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\underset{1}{1 / \mathrm{U}}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |
| Justice | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 2/D, } \\ & 2 \text { D, } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{J}, \\ & 2 \mathrm{~J} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / S \\ & 1 S \end{aligned}$ |  |
| Keep | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / Y, \\ & 1 \& \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ |  |  |  |  |
| Kind | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |


| Knew | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $1 / \mathrm{N},$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} 1 \\ & 1 \mathrm{U} \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Know | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $1 / \mathrm{N},$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / 01 \\ & 10 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} 1 \\ & 1 \mathrm{U} \end{aligned}$ |  |  |
| Knowledge | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $1 / \mathrm{J}$ 1 J |


| Lead * | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Least | 1/PA1, 1 space | $\begin{aligned} & \text { 2/L, } \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y}, \\ & 1 \& \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Leave | 1/PA1, 1 space | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 2/E1, } \\ & 2 \mathrm{E} \end{aligned}$ | $\underset{1 \mathrm{Y}}{1 / \mathrm{Y} 1,}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |  |  |  |  |
| Leeway | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 2/E1, } \\ & 2 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY } \\ & 1^{*} \end{aligned}$ |  |  |  |
| Left | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / F, \\ & 1 F \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Life | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{F} \\ & 1 \mathrm{~F} \end{aligned}$ |  |  |  |  |
| Light | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 2, \\ & 1 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} 1, \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Limit | 1/PA1, 1 space | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| List | 2/PA1, 2 space | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/I1, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |
| Live | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L}, \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/I1, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |  |  |  |  |  |
| Location | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/UH3, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 / \mathrm{N} \end{aligned}$ | 1/UH3, | 1/02, | 2/K, | 1/A2, | 1/Y1, | 1/SH | $\begin{aligned} & 2 \text { space } \\ & 18 \end{aligned}$ |
|  | $\begin{aligned} & 1 \mathrm{~L} \\ & 1 \mathrm{~N} \end{aligned}$ | 18 | 1 [ | 2 K | 1) | 1 Y | $2>$ |  |  |

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Manage

1/PA1, 1/M, 2/A1, 1/AY, 1/Y1, 1/D 1 space $1 \mathrm{M} \quad 2 @ 1$ @ 1 Y 1 D


| March | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{M}, \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R 2 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{CH} \\ & 1 \mathrm{C} \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mark | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{M}, \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |  |  |  |
| Material | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{T}, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 2/I1, } \\ & 2 \mathrm{I} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |
| Maximum | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{M}, \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |
| May | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 3, \\ & 25 \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 @ \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1^{*} \end{aligned}$ |  |  |  |  |
| Measurement | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{M}, \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & \text { 1/ZH, } \\ & 1 \mathrm{X} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/M, } \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |
| Mechanic | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{K}, \\ & 3 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| Medium | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{M} \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 2/E1, } \\ & 2 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D } \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |
| Member | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{M}, \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 1, \\ & 23 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/B, } \\ & 1 \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / / \end{aligned}$ |  |  |  |
| Men | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{M}, \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |
| Merge | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{M} \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/ER, } \\ & 1 / / \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \text { D, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{J} \\ & 1 \mathrm{~J} \end{aligned}$ |  |  |  |
| Mile | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{M} \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |  |
| Million | 2/PA1, 2 space | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 2/I1, } \\ & 2 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |
| Mind | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{M} \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |
| Minutes | 2/PA1, 2 space | $\begin{aligned} & \text { 2/M, } \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/In, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & \text { 1/T, } \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |
| Mistake | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1 * \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} 1, \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |
| Monday | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{M}, \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1 * \end{aligned}$ |  |  |
| Month | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{M}, \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{TH} \\ & 1= \end{aligned}$ |  |  |  |  |


| Mr. | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{M} \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{I} 2, \\ & 2! \end{aligned}$ | $\begin{aligned} & 1 / S, \\ & 1 S \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mrs. | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{I} 1, \\ & 2 \mathrm{I} \end{aligned}$ | $\begin{aligned} & 1 / S, \\ & 1 S \end{aligned}$ | $\begin{aligned} & \text { 1/I2, } \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Z} \\ & 1 \mathrm{Z} \end{aligned}$ |
| Much | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{M} \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{CH} \\ & 1 \mathrm{C} \end{aligned}$ |  |
| Must | 1/PA1, <br> 1 space | $\begin{aligned} & 2 / \mathrm{M}, \\ & 2 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\underset{1 / \mathrm{S}}{1 / \mathrm{S}}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |


| Nation | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & \text { 1/SH, } \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Necessitate | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/T, } \end{aligned}$ | $\begin{aligned} & \text { 1/N } \\ & \text { 1/A1 } \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & \text { 1/AY, } \end{aligned}$ | $\begin{aligned} & \text { 2/S, } \\ & 1 / \mathrm{T} \end{aligned}$ | 2/EH1, | 1/S, | 1/I3, | $\begin{array}{ll} 2 \text { space } & 1 \mathrm{~N} \\ 1 \mathrm{~T} & 1 @ \end{array}$ |
|  | $\begin{aligned} & 15 \\ & 1 * \end{aligned}$ | $\begin{aligned} & 2 \mathrm{~S} \\ & 1 \mathrm{~T} \end{aligned}$ | 13 | 1 S | 1 \# |  |  |  |
| Never | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V}, \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / \end{aligned}$ |  |  |  |
| Newspaper | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/AY, } \end{aligned}$ | $\begin{aligned} & \text { 1/N, } \\ & 1 / \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 2/IU, } \\ & \text { 1/R } \end{aligned}$ | 2/U1, | 2/Z, | 1/P, | 1/A1, | $\begin{array}{ll} 2 \text { space } & 1 \mathrm{~N} \\ 1^{*} & 1 \mathrm{P} \end{array}$ |
|  | $\begin{aligned} & 2( \\ & 1 R \end{aligned}$ | 2 U | 2 Z | 1 P | 1 @ |  |  |  |


| Nine | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nobody | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 2 / 01, \\ & 20 \end{aligned}$ | $\begin{aligned} & \text { 1/B, } \\ & 1 \text { B } \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & 1 / Y \\ & 1 \& \end{aligned}$ |  |
| North | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $1 / 0$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{TH} \\ & 1= \end{aligned}$ |  |  |  |
| Not | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/AH1, } \\ & 2 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |
| November | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/B, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 / \mathrm{ER} \end{aligned}$ | 1/01, | 3/V, | 2/EH2, | 1/EHb, | 1/M, | $\begin{array}{ll} 1 \text { space } & 1 \mathrm{~N} \\ 1 \mathrm{~B} & 1 / \end{array}$ |
|  | 10 | 3 V | 24 | 15 | 1 M |  |  |  |

Now 2/PA1, 2/N, 2/UH3, 1/AH1, 1/02, 1/U1 2 space 2 N 281 ; 1 [ 1 U

Number

| Objected | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/PA }, \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & \text { 1/T, } \end{aligned}$ | $\begin{aligned} & \text { 1/B, } \\ & \text { 1/I3, } \end{aligned}$ | $\begin{aligned} & \text { 2/D, } \\ & \text { 1/D } \end{aligned}$ | 2/J, | 1/EH1, | 1/K, | $\begin{aligned} & 1 \text { space } \\ & 1 \emptyset \end{aligned}$ | $\begin{aligned} & 17 \\ & 1 \mathrm{~T} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 B | 2 D | 2 J | 13 | 1 K |  |  |  |  |
|  | 1 \# | 1 D |  |  |  |  |  |  |  |
| Observe | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{UH} 2, \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{B}, \\ & 2 \mathrm{~B} \end{aligned}$ | $\begin{aligned} & 1 / Z, \\ & 1 \mathrm{Z} \end{aligned}$ | $\begin{aligned} & \text { 1/ER, } \\ & 1 / \mathrm{l} \end{aligned}$ | $\begin{aligned} & \text { 2/R, } \\ & 2 / \mathrm{R} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |  |  |
| O'Clock | 1/PA1, 1 space | $\begin{aligned} & 1 / 01, \\ & 10 \end{aligned}$ | $\begin{aligned} & 3 / K, \\ & 3 \mathrm{~K} \end{aligned}$ | $\frac{1 / L}{1 \mathrm{~L}}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |  |  |  |
| October | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/U1, } \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & \text { 1/B, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 / \mathrm{R} \end{aligned}$ | 2/PAØ, | 3/T, | 1/02, | $\begin{aligned} & 1 \text { space } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 ; \\ & 1 \text { B } \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~K} \\ & 1 \mathrm{R} \end{aligned}$ |
|  | 20 | 3 T | 1 [ |  |  |  |  |  |  |
| On | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/AH, } \\ & 1 \text { ] } \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |
| Once | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |
| One | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/UH, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |  |
| Operate | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{AH} 1, \\ & 2 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 \mathrm{P} \end{aligned}$ | 1/ER, | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1 * \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |
| Our $(\mathrm{s})$ | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & \text { 1/ER, } \\ & 1 / \end{aligned}$ | $\begin{aligned} & (1 / \mathrm{Z}) \\ & (1 \mathrm{Z}) \end{aligned}$ |  |  |  |  |
| Over | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / 01, \\ & 10 \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V}, \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / \end{aligned}$ |  |  |  |  |
| Pacific | 1/PA1, 2 space | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 2/EH2, } \\ & 24 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{gathered} 1 / \mathrm{I} 1, \end{gathered}$ | $\begin{aligned} & 1 / \mathrm{F}, \\ & 1 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |  |
| Page | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 2/A1, } \\ & 2 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1 * \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & \text { 1/D1, } \\ & \text { 1 D } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{J} \\ & 1 \mathrm{~J} \end{aligned}$ |  |  |
| Paper | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / P, \\ & 1 P \end{aligned}$ | $\begin{aligned} & \text { 2/A1, } \\ & 2 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1 * \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / \end{aligned}$ |  |  |  |
| Parallel | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/UH3, } \end{aligned}$ | $\begin{aligned} & \text { 2/R, } \\ & 1 / L \end{aligned}$ | 2/EH1, | 1/R, | 2/UH3, | 1/L, | 1/EH3, | $\begin{aligned} & 2 \text { space } \\ & 18 \end{aligned}$ | 2 P |
|  | 23 | 1 R | 28 | 1 L | 15 |  |  |  |  |
| Part(s) | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | 1/AH1, | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & (1 / \mathrm{S}) \\ & (1 \mathrm{~S}) \end{aligned}$ |  |  |  |


| Pass | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AE}, \\ & 1: \ddagger \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pattern | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/DT, } \\ & 1 \mathrm{Q} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{ER}, \\ & 1 / \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |
| Pavement | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/N, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 / \mathrm{T} \end{aligned}$ | 2/A1, | 1/AY, | 1/V, | 1/M, | 1/EH3, | $\begin{aligned} & 2 \text { space } \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{P} \\ & 1 \mathrm{~T} \end{aligned}$ |
|  | 2 @ | 1* | 1 V | 1 M | 15 |  |  |  |  |
| Pay | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1^{*} \end{aligned}$ |  |  |  |  |
| Percent | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | 1/EH1, | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |
| Percentage | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/I3, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 / \mathrm{D}, \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 / J \end{aligned}$ | 3/S, | 1/EH1, | 1/N, | 1/T, | $\begin{aligned} & 1 \text { space } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 \mathrm{P} \\ & 1 \mathrm{D} \end{aligned}$ |
|  | $\begin{aligned} & 1 \mathrm{R} \\ & 1 \mathrm{~J} \end{aligned}$ | 3 S | 13 | 1 N | 1 T |  |  |  |  |
| Performance | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/EH3, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 / \mathrm{N}, \end{aligned}$ | $\begin{aligned} & \text { 1/R, } \\ & \text { 1/S } \end{aligned}$ | 3/F, | 1/02, | 1/R, | 1/M, | $\begin{aligned} & 1 \text { space } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ |
|  | $\begin{aligned} & 1 \mathrm{R} \\ & 1 \mathrm{R} \end{aligned}$ | 3 F | 1 [ | 1 R | 1 M |  |  |  |  |
| Period | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{I} 2, \\ & 2! \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| Pertain | $\begin{aligned} & \text { 1/PA1, } \\ & 1 / \mathrm{N} \end{aligned}$ | 2/P, | 1/ER, | 3/T, | 1/A1, | 1/AY, | 1/Y1, | $\begin{aligned} & 1 \text { space } \\ & 1 \mathrm{~N} \end{aligned}$ | 2 P |
|  | $1 /$ | 3 T | 1 @ | 1* | 1 Y |  |  |  |  |
| Phone | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/F, } \\ & 2 / \mathrm{F} \end{aligned}$ | $1 / 0,$ | $\begin{aligned} & 1 / \mathrm{U} 1, \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |
| Phrase | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{F}, \\ & 2 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY}, \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / Z \\ & 1 \mathrm{Z} \end{aligned}$ |  |  |
| Place | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/P, } \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / L, \\ & 1 \mathrm{~L}, \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1 * \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} 1 \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |
| Placement | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/P, } \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L}, \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/A2, } \\ & 1 \text { ) } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY}, \\ & 1 * \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M}, \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ |
|  | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |  |  |  |  |


| Plan | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L}, \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Please | 2/PA1, <br> 2 space | $\underset{2}{2 / \mathrm{P}},$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / Z \\ & 1 Z \end{aligned}$ |  |  |  |
| P. M. | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1, \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 2/E1, } \\ & 2 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{PA} \emptyset, \\ & 2 \emptyset \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | 1/EH3, 15 | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |
| Policy | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & \text { 1/S, } \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / Y \\ & 1 \& \end{aligned}$ |  |  |
| Position | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{Z}, \\ & 2 \mathrm{Z} \end{aligned}$ | $\begin{aligned} & \text { 1/In, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & \text { 1/SH, } \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |
| Possible | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/B, } \\ & \text { 1 B } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |
| Postage | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / 01, \\ & 10 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{J} \\ & 1 \mathrm{~J} \end{aligned}$ |  |
| Potential | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / 02, \\ & 1[ \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/SH, } \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |
| Practice | 2/PA1, 2 space | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{PA} \emptyset, \\ & 1 \emptyset \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |
| Preference | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & \text { 1/V, } \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |
| Preparation | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/UH3, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 / \mathrm{N} \end{aligned}$ | 1/R, | 1/EH3, | 2/P, | 1/ER, | 2/A1, | 1/AY, | 1/SH |
|  | $\begin{aligned} & 2 \text { space } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 \mathrm{P} \\ & 1 \mathrm{~N} \end{aligned}$ | 1 R | 15 | 2 P | 1 / | 2 @ | 1 * | $1>$ |
| Prepare | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{P}, \\ & 3 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 @ \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R} \\ & 1 \mathrm{R} \end{aligned}$ |  |
| Present | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 2 / I 3, \\ & 2 \# \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{Z}, \\ & 2 \mathrm{Z} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 2, \\ & 14 \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |
| Pressure | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/SH, } \\ & 1> \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{ER} \\ & 1 / \end{aligned}$ |  |  |  |
| Price | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 2, \\ & 1 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |
| Print | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/I1, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Problem(s) | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{P} \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/B, } \\ & 1 \text { B } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 3, \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & (1 / Z) \\ & (1 \mathrm{Z}) \end{aligned}$ |



| Rapid | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / R, \\ & 2 R \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reaction | 1/PA1, 1 space | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{E} 1, \\ & 2 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/SH, } \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |
| Read * | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |
| Read * | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |
| Receive | 1/PA1, 1 space | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $1 / \mathrm{E},$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |  |  |
| Recognition | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/SH, } \end{aligned}$ | $\begin{aligned} & \text { 1/R, } \\ & \text { 1/UH3 }, \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 1 / \mathrm{N} \end{aligned}$ | 2/K, | 1/I2, | 2/G, | 3/N, | 1/I2, | $\begin{aligned} & 2 \text { space } \\ & 1> \end{aligned}$ |
|  | $\begin{aligned} & 1 \mathrm{R} \\ & 18 \end{aligned}$ | $\begin{aligned} & 15 \\ & 1 \mathrm{~N} \end{aligned}$ | 2 K | $1!$ | 2 G | 3 N | $1!$ |  |  |
| Recommend | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{M}, \\ & 3 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/EH, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |
| Recommendation | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/A1, } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{R} \\ & 1 / \mathrm{Ay}, \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & \text { 1/SH, } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 1 / \mathrm{UH} 3, \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 1 / \mathrm{N} \end{aligned}$ | 1/M, | 1/EH2, | 1/N, | 3/D |
|  | $\begin{aligned} & 2 \text { space } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 2 \mathrm{R} \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & 15 \\ & 1> \end{aligned}$ | $\begin{aligned} & 2 \mathrm{~K} \\ & 18 \end{aligned}$ | $\begin{aligned} & 14 \\ & 1 \mathrm{~N} \end{aligned}$ | 1 M | 14 | 1 N | 3 D |
| Refund | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{F} \\ & 1 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{UH} 1, \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |
| Register | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 2/R, } \\ & 2 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{J}, \\ & 1 \mathrm{~J} \end{aligned}$ | $\begin{aligned} & 1 / 13, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & \text { 1/S, } \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R} \\ & 1 \mathrm{R} \end{aligned}$ |
| Release(d) | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1, \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \text { E } \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & (1 / \mathrm{T}) \\ & (1 \mathrm{~T}) \end{aligned}$ |  |
| Remark | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{M}, \\ & 3 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |  |  |
| Remember | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{M}, \\ & 3 \mathrm{M} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 3, \\ & 25 \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & \text { 1/M, } \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/B, } \\ & 1 \mathrm{~B} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R} \\ & 1 \mathrm{R} \end{aligned}$ |
| Remind | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{M}, \\ & 3 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |
| Reorganize | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/Y1, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R}, \\ & 1 / \mathrm{Z} \end{aligned}$ | 1/E1, | 3/01, | 1/R, | 2/G, | 1/UH3, | 1/N, | 1/AH1, |
|  | $\begin{aligned} & 2 \text { space } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{R} \\ & 1 \mathrm{Z} \end{aligned}$ | 1 E | 30 | 1 R | 2 G | 18 | 1 N | 1 ; |


| Repeat | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{R}, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{P}, \\ & 3 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Replace | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{R}, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{P}, \\ & 3 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 @ \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |
| Replacement | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/EH3, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R}, \\ & 1 / \mathrm{N}, \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 / \mathrm{T} \end{aligned}$ | 3/P, | 1/L, | 2/A1, | 1/Y1, | 1/S, | 1/M |
|  | $\begin{aligned} & 1 \text { space } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 \mathrm{R} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 \mathrm{E} \\ & 1 \mathrm{~T} \end{aligned}$ | 3 P | 1 L | 2 @ | 1 Y | 2 S | 1 M |
| Report | 1/PA1, 1 space | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{P}, \\ & 3 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / 01, \\ & 10 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |
| Represent | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 3, \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{Z}, \\ & 3 \mathrm{Z} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ |
|  | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |  |  |  |  |
| Request | 1/PA1, 1 space | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\underset{1}{1 / \mathrm{I} 3,}$ | $\begin{aligned} & 3 / \mathrm{K}, \\ & 3 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| Return | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{T}, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/ER, } \\ & 1 / / \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |
| Right | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 2, \\ & 1 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Rotation | 1/PA1, 1 space | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / 02, \\ & 1[ \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{T}, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1 * \end{aligned}$ | $\begin{aligned} & \text { 1/SH, } \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |
| Runway | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1 * \end{aligned}$ |  |  |
| Said | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 3, \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |
| Same | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 @ \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY}, \\ & 1 * \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |
| Saturday | 2/PA1, $2 \text { space }$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 2/EH3, } \\ & 25 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{DT}, \\ & 1 \mathrm{Q} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1^{*} \end{aligned}$ |
| Save | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |  |  |
| Say | 2/PA1, $2 \text { space }$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 @ \end{aligned}$ | $\begin{aligned} & \text { 1/AY } \\ & 1^{*} \end{aligned}$ |  |  |  |  |
| School | 2/PA1, $2 \text { space }$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} 1, \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |  |


| Screen | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Search | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{ER}, \\ & 1 / \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{CH} \\ & 1 \mathrm{C} \end{aligned}$ |  |  |  |
| Season | 2/PA1, <br> 2 space | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / E, \\ & 1 . \end{aligned}$ | $\begin{aligned} & 1 / Z, \\ & 1 \mathrm{Z} \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |
| Second(s) | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & (1 / S) \\ & (1 \text { S }) \end{aligned}$ |  |
| Section | 2/PA1, 2 space | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{SH}, \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |
| Secure | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / S, \\ & 1 S \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 2/Y1, } \\ & 2 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / E R, \\ & 1 / / \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |
| See | 2/PA1, 2 space | $\begin{aligned} & 2 / S, \\ & 2 S \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/E1 } \\ & 1 \mathrm{E} \end{aligned}$ |  |  |  |  |  |
| Seen | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |
| Select | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / S, \\ & 1 S \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| Self | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 1, \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{F} \\ & 1 \mathrm{~F} \end{aligned}$ |  |  |  |
| Sell | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |  |  |
| Send | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |
| Sent | 2/PA1, 2 space | $\begin{aligned} & 2 / S, \\ & 2 S \end{aligned}$ | $\begin{aligned} & \text { 2/EH3, } \\ & 25 \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Separate | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |
| Separation | 2/PA1, 2 space | $\begin{aligned} & \text { 1/S, } \\ & 1 S \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P} \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / E R, \\ & 1 / \end{aligned}$ | $\begin{aligned} & \text { 2/A1, } \\ & 2 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY}, \\ & 1 * \end{aligned}$ | $\begin{aligned} & \text { 1/SH, } \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ |
|  | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |  |  |  |  |
| September | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P} \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{T}, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/B, } \\ & 1 \text { B } \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |
| Serve | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / E R, \\ & 2 / \end{aligned}$ | $\begin{aligned} & \text { 1/R, } \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |  |  |  |  |


| Seven | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Seventeen | 2/PA1, $2 \text { space }$ | $\begin{aligned} & \text { 2/S, } \\ & 2 \mathrm{~S} \end{aligned}$ | 1/EH1, | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\stackrel{2}{2 / \mathrm{T}},$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ |
|  | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |  |  |  |  |
| Seventy | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 1, \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V}, \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} \\ & 1 \& \end{aligned}$ |  |
| Several | 2/PA1, 2 space | $\begin{aligned} & \text { 1/S, } \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V}, \end{aligned}$ | $\underset{1}{1 / R,}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |
| She | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{SH}, \\ & 2> \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1 \\ & 1 \mathrm{E} \end{aligned}$ |  |  |  |  |  |
| Shipment | 2/PA1, $2 \text { space }$ | $\begin{aligned} & 2 / \mathrm{SH}, \\ & 2> \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P}, \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| Short | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{SH}, \\ & 2> \end{aligned}$ | $\begin{aligned} & 1 / 01, \\ & 10 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |
| Shortage | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{SH}, \\ & 2> \end{aligned}$ | $\begin{aligned} & 1 / 02, \\ & 1[ \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{J} \\ & 1 \mathrm{~J} \end{aligned}$ |  |
| Should | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{SH}, \\ & 2> \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Iu}, \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Iu}, \\ & 1( \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |
| Side | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |
| Sign | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |
| Signal | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 2/I1, } \\ & 2 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{G} \\ & 1 \mathrm{G} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |
| Signature | 2/PA1, <br> 2 space | $\begin{aligned} & 3 / \mathrm{S}, \\ & 3 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 2/I1, } \\ & 2 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{G}, \\ & 1 \mathrm{G} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{CH}, \\ & 1 \mathrm{C} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{ER} \\ & 1 / \end{aligned}$ |
| Significant | 1/PA1, <br> 1/EH3, | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 / \mathrm{N}, \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2 \\ & 1 / \mathrm{T} \end{aligned}$ | 2/G, | 3/N | 1/I2, | 1/F, | 1/13, | 1/K, |
|  | $\begin{aligned} & 1 \text { space } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~S} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1! \\ & 1! \end{aligned}$ | 2 G | 3 N | $1!$ | 1 F | 1 \# | 1 K |
| Since | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/S, } \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I}, \\ & 1 " \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |  |  |
| Single | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $2 / \mathrm{S},$ | $\begin{aligned} & \text { 2/I1, } \\ & 2 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{NG}, \\ & 1+ \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{G}, \\ & 1 \mathrm{G} \end{aligned}$ | $1 / \mathrm{L}$ |  |  |  |


| Situation | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/AY, } \end{aligned}$ | $\begin{aligned} & \text { 2/S, } \\ & \text { 1/SH, } \end{aligned}$ | $\begin{aligned} & \text { 1/I2, } \\ & \text { 1/UH3, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 / \mathrm{N} \end{aligned}$ | 1/CH, | 1/IU, | 2/U1, | 1/A2, | $\begin{aligned} & 2 \text { space } \\ & 1 * \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 2 S | 1! | 1 T | 1 C | $1($ | 2 U | $1)$ |  |  |
|  | $1>$ | 1* | 1 N |  |  |  |  |  |  |
| Six | 2/PA1, | 2/S, | $1 / \mathrm{I} 1,$ | 1/K, | 1/S |  |  |  |  |
|  | 2 space |  | $1 \text { I }$ | 1 K | 1 S |  |  |  |  |
| Sixteen | 2/PA1, | 1/S, | 1/I1, | 2/K, | 2/S, | 2/T, | 1/E1, | 1/E1, | 1/N |
|  | 2 space |  |  |  |  |  |  |  | 1 N |
| Sixty | 2/PA1, | 2/S, | 1/I1, | 1/K, | 1/S, | 1/T, | 1/Y |  |  |
|  | 2 space | 2 S | 1 I | 1 K | 1 S | 1 T | 1 \& |  |  |
| Size | 2/PA1, | 2/S, | 1/AH1, | 1/I3, | 1/E1, | 1/Z |  |  |  |
|  | 2 space | 2 S |  | 1 \# | 1 E | 1 Z |  |  |  |
| Sketch | 2/PA1, | 2/S, | 2/K, | 1/EH1, | 1/I3, | 1/T, | 1/CH |  |  |
|  | 2 space | 2 S | 2 K | 13 | 1 \# | 1 T | 1 C |  |  |
| Slow | 2/PA1, | 2/S, | 2/L, | 1/UH3, | 1/01, | 1/U1 |  |  |  |
|  | 2 space | 2 S | 2 L | 18 | 10 | 1 U |  |  |  |
| Sort | 2/PA1, | 2/S, | 1/0, | 1/R, | 1/T |  |  |  |  |
|  | 2 space | 2 S | $1 \backslash$ | 1 R | 1 T |  |  |  |  |
| Sound | 2/PA1, | 2/S, | 1/AH1, | 1/UH3, | 1/U1, | 1/N, | 1/D |  |  |
|  | 2 space | 2 S | 1; | 18 | 1 U | 1 N | 1 D |  |  |
| South | 2/PA1, | 2/S, | 1/AH1, | 1/02, | 1/U1, | 1/TH |  |  |  |
|  | 2 space | 2 S |  | 1 [ | 1 U | $1=$ |  |  |  |
| Speaker | 2/PA1, | 2/S, | 2/P, | 1/E, | 1/K, | 1/ER |  |  |  |
|  | 2 space | 2 S | 2 P | 1. | 1 K | $1 /$ |  |  |  |
| Specific | 1/PA1, | 1/S, | 1/EH2, | 2/S, | 1/I1, | 1/F, | 1/I3, | 1/K |  |
|  | 1 space | 1 S | 14 | 2 S | 1 I | 1 F | 1 \# | 1 K |  |
| Speed | 2/PA1, | 2/S, | 2/P, | 1/E1, | 1/E1, | 1/D |  |  |  |
|  | 2 space | 2 S | 2 P | 1 E | 1 E | 1 D |  |  |  |
| Spend | 2/PA1, | 2/S, | 2/P, | 1/EH1, | 1/13, | 1/N, | 1/D |  |  |
|  | 2 space | 2 S | 2 P | 13 | 1 \# | 1 N | 1 D |  |  |
| Spring | 2/PA1, | 2/S, | 2/P, | 1/R, | 1/I1, | 1/NG |  |  |  |
|  | 2 space | 2 S | 2 P | 1 R | 1 I | $1+$ |  |  |  |
| Square | 1/PA1, | 1/S, | 2/K, | 2/W, | 1/EH3, | 1/I3, | $1 \nmid \mathrm{R}$ |  |  |
|  | 1 space | 1 S | 2 K | 2 W | 15 | 1 \# | 1 R |  |  |
| Stamp | 2/PA1, | 2/S, | 2/T, | 1/AE1, | 1/EH3, | 1/M, | 1/P |  |  |
|  | 2 space | 2 S | 2 T | 19 | 15 | 1 M | 1 P |  |  |


| Standard | 2/PA1, $2 \text { space }$ | $\begin{aligned} & \text { 2/S, } \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{T}, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \text { D, } \end{aligned}$ | $\begin{aligned} & \text { 1/ER, } \\ & 1 / \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| State(s) | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 @ \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & (1 / \mathrm{S}) \\ & (1 \mathrm{~S}) \end{aligned}$ |  |
| Statement | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{T}, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/A1,' } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M}, \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ |
|  | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |  |  |  |  |
| Station | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 2/A1, } \\ & 2 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1 * \end{aligned}$ | $\begin{aligned} & \text { 1/SH, } \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N}^{*} \end{aligned}$ |  |
| Statistics | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{T}, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 2/I1, } \\ & 2 \mathrm{I} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ |
|  | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |  |  |  |  |  |
| Stock | 2/PA1, 2 space | $\begin{aligned} & \text { 2/S, } \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AW} 2, \\ & 12 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |  |  |  |
| Stop | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/AH, } \\ & 1 \text { ] } \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ |  |  |  |
| Store | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 2/T, } \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / 0, \\ & 1 \backslash \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |  |
| Subject | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 2/S, } \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{UH} 1, \\ & 26 \end{aligned}$ | $\underset{1}{1 / \mathrm{B}}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{J}, \\ & 1 \mathrm{~J} \end{aligned}$ | $\underset{13}{\text { 1/EH1, }}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |
| Subjective | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/S, } \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & \text { 2/B, } \\ & 2 \mathrm{~B} \end{aligned}$ | $\begin{aligned} & \text { 3/D, } \\ & 3 \text { D } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{J}, \\ & 2 \mathrm{~J} \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ |
|  | $\begin{aligned} & \text { 1/13, } \\ & 1 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ |  |  |  |  |  |  |  |
| Substitute | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & \text { 1/B, } \\ & \text { 1 B } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{IU}, \\ & 1( \end{aligned}$ |
|  | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |  |  |  |
| Success | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 1/S, } \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{UH} 2, \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |
| Such | 2/PA1, $2 \text { space }$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/UH, } \\ & 16 \end{aligned}$ | $\begin{gathered} 1 / \mathrm{T}, \\ 1 \mathrm{~T} \end{gathered}$ | $\begin{aligned} & 1 / \mathrm{CH} \\ & 1 \mathrm{C} \end{aligned}$ |  |  |  |  |
| Sufficient | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/S, } \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{F}, \\ & 3 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/In, } \\ & 1 \mathrm{I} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{SH}, \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |


| Suggest | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{UH} 2, \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{G}, \\ & 2 \mathrm{G} \end{aligned}$ | $\begin{aligned} & \text { 2/D, } \\ & 2 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{J}, \\ & 2 \mathrm{~J} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH}, \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sunday | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 2/UH1, } \\ & 26 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/A2, } \\ & 1 \text { ) } \end{aligned}$ | $\begin{aligned} & \text { 1/AY } \\ & 1 @ \end{aligned}$ |  |
| Supply | 2/PA1, 2 space | $\begin{aligned} & 1 / S, \\ & 1 S \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P}, \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1 \\ & 1 \mathrm{E} \end{aligned}$ |  |  |
| Support | 2/PA1, 2 space | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{P} \\ & 2 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / 0, \\ & 1 \backslash \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |
| Surplus | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{ER}, \\ & 2 / \end{aligned}$ | $\begin{aligned} & \text { 1/P, } \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L}, \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |
| Taught | 1/PA1, 1 space | $\begin{aligned} & 3 / \mathrm{T}, \\ & 3 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AW}, \\ & 1, \ddagger \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |  |
| Teacher | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{CH}, \\ & 1 \mathrm{C} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{ER} \\ & 1 / \end{aligned}$ |  |  |  |
| Technical | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 1, \\ & 23 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/13, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{UH} 3, \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |
| Technique | 1/PA1, <br> 1 space | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E}, \\ & 1 . \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |  |  |
| Telephone | 2/PA1, $2 \text { space }$ | $\begin{aligned} & \text { 2/T, } \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & \text { 1/L, } \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{UH} 3, \\ & 28 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{F}, \\ & 1 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / 01, \\ & 10 \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \text { U } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |
| Television | 2/PA1, 2 space <br> 1/N <br> 1 N | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 1, \\ & 23 \end{aligned}$ | $\begin{aligned} & \text { 1/L, } \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V} \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/I2, } \\ & 1! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{ZH}, \\ & 1 \mathrm{X} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ |
| Ten | 2/PA1, $2 \text { space }$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 2/EH3, } \\ & 25 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 1, \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |
| Terminate | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{ER}, \\ & 2 / \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/A2, } \\ & 1 \text { ) } \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |
| Test | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH}, \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |
| That | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 2/THV, } \\ & 2< \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |
| The | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{THV}, \\ & 1< \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & \text { 3/UH3 } \\ & 28 \end{aligned}$ |  |  |  |  |

[^4]| Them | 2/PA1, 2 space | $\begin{aligned} & \text { 2/THV, } \\ & 2< \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Then | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 2/THV, } \\ & 2< \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |
| There | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 2/THV, } \\ & 2< \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & \text { 1/A2, } \\ & 1 \text { ) } \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |  |
| These | 2/PA1, 2 space | $\begin{aligned} & \text { 2/THV, } \\ & 2< \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / Z \\ & 1 Z \end{aligned}$ |  |  |  |  |
| Third | 2/PA1, 2 space | $\begin{aligned} & 1 / \mathrm{TH}, \\ & 2= \end{aligned}$ | $\begin{aligned} & \text { 1/ER, } \\ & 1 / \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |
| Thirteen | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 2 space } \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{TH}, \\ & 3= \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 2/ER, } \\ & 2 / \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{PA} \emptyset, \\ & 2 \emptyset \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |
| This | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 1/THV, } \\ & 1< \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{I}, \\ & 2 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |  |  |  |
| Three | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{TH}, \\ & 2= \end{aligned}$ | $\begin{aligned} & 2 / R, \\ & 2 R \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} \\ & 1 \& \end{aligned}$ |  |  |  |  |
| Thursday | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{TH}, \\ & 2= \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{TH}, \\ & 2= \end{aligned}$ | $\begin{aligned} & \text { 2/ER, } \\ & 2 / \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{Z}, \\ & 2 \mathrm{Z} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY } \\ & 1 * \end{aligned}$ |
| Time | 2/PA1; $2 \text { space }$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |  |  |
| To | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} \\ & 1 \end{aligned}$ |  |  |  |  |  |
| Topic | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |  |  |  |
| Touch | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/UH, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{CH} \\ & 1 \mathrm{C} \end{aligned}$ |  |  |  |  |
| Traffic | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 2 / R, \\ & 2 R \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / F, \\ & 1 F \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |  |
| Transaction | $\begin{aligned} & \text { 2/PA1, } \\ & \text { 1/SH, } \end{aligned}$ | $\begin{aligned} & \text { 1/T, } \\ & \text { 1/UH3, } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R}, \\ & 1 / \mathrm{N} \end{aligned}$ | 1/AE1, | 2/N, | 3/Z, | 1/AE1, | 2/EH3, | 1/K, |
|  | $\begin{aligned} & 2 \text { space } \\ & 1> \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~T} \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 \mathrm{R} \\ & 1 \mathrm{~N} \end{aligned}$ | 19 | 2 N | 3 Z | 19 | 25 | 1 K |
| Transfer | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 2/R, } \\ & 2 R \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 2/I3, } \\ & 2 \# \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/S, } \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / F, \\ & 1 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/ER } \\ & 1 / / \end{aligned}$ |
| Tuesday | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\begin{aligned} & \text { 2/U1, } \\ & 2 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} 1, \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & \text { 2/Z, } \\ & 2 \mathrm{Z} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D } \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY } \\ & 1^{*} \end{aligned}$ |


| Unconscious | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 2/AH1, } \\ & 2 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/SH, } \\ & 1> \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Understand | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/R, } \\ & 1 R \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ |
|  | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |  |  |  |
| Understood | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1 \text { ( } \end{aligned}$ |
|  | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |  |  |  |  |
| Uniform | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / Y, \\ & 2 \& \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{F}, \\ & 1 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & 1 / 01, \\ & 10 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ |
|  | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |  |  |  |  |  |  |
| Unite | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1 \text { ( } \end{aligned}$ | $\begin{aligned} & \text { 2/U1, } \\ & 2 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | 1/AH1, $1 ;$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| Unknown | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{N}, \\ & 3 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/01, } \\ & 10 \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \text { U } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |
| Unlimited | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 2/L, } \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{I} 2, \\ & 2! \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \# \end{aligned}$ |
|  | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |  |  |  |  |  |
| Until | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/UH2, } \\ & 17 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{T}, \\ & 2 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & \text { 2/I1, } \\ & 2 \text { I } \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |
| Unusual | $\begin{aligned} & \text { 1/PA1, } \\ & \text { 1/L } \end{aligned}$ | 1/UH2, | 1/N, | 2/Y1, | 1/IU, | 2/U1, | 1/ZH, | 1/IU, | 1/U1, |
|  | 1/UH3, | $\begin{aligned} & 1 \text { space } \\ & 1 \mathrm{~L} \end{aligned}$ | 17 | 1 N | 2 Y | 11 | 2 U | 1 X | 1 ( |
|  | 1 U | 18 |  |  |  |  |  |  |  |
| Upon | 1/PA1, <br> 1 space | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 3 / \mathrm{P} \\ & 3 \mathrm{P} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |
| Urgent | 2/PA1, <br> 2 space | $\begin{aligned} & \text { 2/R, } \\ & 2 R \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{J}, \\ & 1 \mathrm{~J} \end{aligned}$ | $\begin{aligned} & \text { 1/EH2, } \\ & 14 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |
| Use * | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{Y} 1, \\ & 2 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} \\ & 1 \end{aligned}$ | $\begin{aligned} & 1 / S \\ & 1 S \end{aligned}$ |  |  |  |  |


| Use * | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\underset{1 \mathrm{Y}}{1 / \mathrm{Y} 1}$ | $\begin{aligned} & 1 / \mathrm{IU}, \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / Z \\ & 1 Z \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Vacancy | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{V}, \\ & 2 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 2/A1, } \\ & 2 \text { @ } \end{aligned}$ | $\begin{aligned} & \text { 1/AY, } \\ & 1 * \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/S, } \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / Y \\ & 1 \& \end{aligned}$ |
| Valid | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{V}, \\ & 2 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/L, } \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| Verify | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{V} \\ & 2 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{F}, \\ & 1 \mathrm{~F} \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1 } \\ & 1 \mathrm{E} \end{aligned}$ |  |
| Very | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{V} \\ & 2 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & \text { 1/EH, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / Y \\ & 1 \& \end{aligned}$ |  |  |  |  |
| Voice | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{V} \\ & 2 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 1 / 01, \\ & 10 \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |  |
| Volume | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{V}, \\ & 2 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/L, } \\ & 1 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{Y} 1, \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |
| VOTRAX | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{V}, \\ & 1 \mathrm{~V} \end{aligned}$ | $\begin{aligned} & 1 / 0, \\ & 1 \backslash \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ | $1 / \mathrm{R},$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |
| Walk | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/AW, } \\ & 1, \ddagger \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K} \\ & 1 \mathrm{~K} \end{aligned}$ |  |  |  |  |  |
| Want | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| Warehouse | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{H}, \\ & 1 \mathrm{H} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{UH} 3, \\ & 18 \end{aligned}$ | $\begin{aligned} & \text { 1/AH2, } \\ & 1 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \text { U } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |
| Watch | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & \text { 2/W, } \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/AW2, } \\ & 12 \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{CH} \\ & 1 \mathrm{C} \end{aligned}$ |  |  |  |
| Wednesday | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{N}, \\ & 2 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / Z, \\ & 1 Z \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & \text { 1 D, } \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1 * \end{aligned}$ |  |
| Weigh(t) | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & \text { 1/A2, } \\ & 1) \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY}, \\ & 1^{*} \end{aligned}$ | $\begin{aligned} & \text { 1/Y1, } \\ & 1 \mathrm{Y} \end{aligned}$ | $\begin{aligned} & (1 / \mathrm{T}) \\ & (1 \mathrm{~T}) \end{aligned}$ |  |  |
| Welcome | $\begin{aligned} & \text { 2/PA1, } \\ & 2 \text { space } \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{L}, \\ & 2 \mathrm{~L} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{K}, \\ & 1 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & \text { 1/UH1, } \\ & 16 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{M} \\ & 1 \mathrm{M} \end{aligned}$ |  |  |
| Well | 2/PA1, 2 space | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |  |  |
| Went | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |


| Were | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/ER, } \\ & 1 / / \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| West | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |
| What | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{UH} 1, \\ & 26 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |  |  |
| When | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 2/EH1, } \\ & 23 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |  |
| Where | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 2, \\ & 24 \end{aligned}$ | $\begin{aligned} & \text { 1/A2, } \\ & \text { 1) } \end{aligned}$ | $\begin{aligned} & 1 / R \\ & 1 R \end{aligned}$ |  |  |  |
| Which | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 2/I1, } \\ & 2 \text { I } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T}, \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{CH} \\ & 1 \mathrm{C} \end{aligned}$ |  |  |  |
| White | 2/PA1, <br> 2 space | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{UH} 3, \\ & 28 \end{aligned}$ | $\begin{aligned} & \text { 1/AH2, } \\ & 1 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |  |  |
| Why | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{E} 1 \\ & 1 \mathrm{E} \end{aligned}$ |  |  |  |
| Will | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{L} \\ & 1 \mathrm{~L} \end{aligned}$ |  |  |  |
| Wind * | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AH} 1, \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/E1, } \\ & 1 \mathrm{E} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & \text { 1/D } \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| Wind * | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/I1, } \\ & 1 \mathrm{I} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / D \\ & 1 \mathrm{D} \end{aligned}$ |  |  |  |
| Within | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2 \\ & 1! \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{TH}, \\ & 2= \end{aligned}$ | $\begin{aligned} & 3 / 12, \\ & 3! \end{aligned}$ | $\begin{aligned} & \text { 1/I3, } \\ & 1 \text { \# } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |
| Without | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{I} 2, \\ & 1! \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{TH}, \\ & 2= \end{aligned}$ | $\begin{aligned} & \text { 3/UH3, } \\ & 38 \end{aligned}$ | $\begin{aligned} & \text { 1/AH2, } \\ & 1 \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{T} \\ & 1 \mathrm{~T} \end{aligned}$ |
| Work | 1/PA1, 1 space | $\begin{aligned} & 1 / \mathrm{W}, \\ & 1 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{ER}, \\ & 1 / \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K} \\ & 2 \mathrm{~K} \end{aligned}$ |  |  |  |
| Would | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \text { U } \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{IU} \\ & 1( \end{aligned}$ | $\begin{aligned} & \text { 1/D } \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| Wound * | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & \text { 1/AH1, } \\ & 1 ; \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \text { U } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |
| Wound * | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{W}, \\ & 2 \mathrm{~W} \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \text { U } \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N}, \\ & 1 \mathrm{~N} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{D} \\ & 1 \mathrm{D} \end{aligned}$ |  |  |
| Wrap | 1/PA1, <br> 1 space | $\begin{aligned} & 2 / \mathrm{R}, \\ & 2 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/AE1, } \\ & 19 \end{aligned}$ | $\begin{aligned} & \text { 1/EH3, } \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{P} \\ & 1 \mathrm{P} \end{aligned}$ |  |  |  |


| X-Ray | 2/PA1, 2 space | $\begin{aligned} & \text { 2/EH3, } \\ & 25 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{K}, \\ & 2 \mathrm{~K} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S}, \\ & 1 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R}, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1 * \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1 * \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Yes | 1/PA1, 1 space | $\begin{aligned} & 2 / \mathrm{Y} \\ & 2 \& \end{aligned}$ | $\begin{aligned} & \text { 1/EH1, } \\ & 13 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{EH} 3, \\ & 15 \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{S} \\ & 1 \mathrm{~S} \end{aligned}$ |  |  |  |  |
| Yesterday | 1/PA1, 1 space | $\begin{aligned} & 2 / Y \\ & 2 \& \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{EH} 1, \\ & 23 \end{aligned}$ | $\begin{aligned} & 2 / \mathrm{S}, \\ & 2 \mathrm{~S} \end{aligned}$ | $\begin{aligned} & \text { 1/T, } \\ & 1 \mathrm{~T} \end{aligned}$ | $\begin{aligned} & 1 / R, \\ & 1 R \end{aligned}$ | $\begin{aligned} & \text { 1/D, } \\ & 1 \mathrm{D} \end{aligned}$ | $\begin{aligned} & \text { 1/A1, } \\ & 1 \text { @ } \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{AY} \\ & 1 * \end{aligned}$ |
| You | 2/PA1, <br> 2 space | $\begin{aligned} & 2 / \mathrm{Y} \\ & 2 \& \end{aligned}$ | $\begin{aligned} & \text { 1/IU, } \\ & 1( \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{U} \\ & 1 \end{aligned}$ |  |  |  |  |  |
| Zero | 2/PA1, 2 space | $\begin{aligned} & 2 / Z, \\ & 2 \mathrm{Z} \end{aligned}$ | $\begin{aligned} & \text { 1/I1, } \\ & 1 \mathrm{I} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{R}, \\ & 1 \mathrm{R} \end{aligned}$ | $\begin{aligned} & \text { 1/UH3, } \\ & 18 \end{aligned}$ | $\begin{aligned} & 1 / 01 \\ & 10 \end{aligned}$ |  |  |  |
| Zone | 2/PA1, 2 space | $\begin{aligned} & 2 / Z, \\ & 2 Z \end{aligned}$ | $\begin{aligned} & \text { 2/UH3, } \\ & 28 \end{aligned}$ | $\begin{aligned} & 1 / 01, \\ & 10 \end{aligned}$ | $\begin{aligned} & \text { 1/U1, } \\ & 1 \mathrm{U} \end{aligned}$ | $\begin{aligned} & 1 / \mathrm{N} \\ & 1 \mathrm{~N} \end{aligned}$ |  |  |  |

## Appendix

c

## NOTES

1. This list consists primarily of verbs, adverbs and adjectives found with some frequency in spoken English. Those nouns included were selected due to their frequency of occurrence, but may not be adequate to accommodate the vocabulary needs of any one specific environment.
2. In general, single syllable words-those words containing only one vowel sound with or without consonant sounds-are to be considered of low intelligibility when presented in isolation. Words like CODE, EIGHT, LIFE, SELF, GUESS are included in this category. Even though they are recognizable out of context, their intelligibility is enhanced when used in context, as it would be with a human speaker. Words like BE, A, THE, OF, IS (open-ended single syllable words) are, by the nature of spoken English, short in duration and take on characteristics to enhance the word(s) they modify. Often, this may require a change in their pronunciation to accommodate the rhythm and accent of the contextual flow. Thus, these words are low in intelligibility when presented in isolation. When words are selected, it is recommended that single syllable words be given the advantage of a contextual environment for maximizing their intelligibility, whenever possible.
3. The Asterisk $(*)$ following certain words indicate that there is more than one pronunciation for that spelling or more than one meaning for that spelling.
4. The following list is made up of words not found on the 500 list, but whose programs are. (Followed by their location word)

| accept | (except) |
| :--- | :--- |
| ate | (eight) |
| awl | (all) |
| "B" | (be) |
| bee | (be) |
| buy | (by) |
| bye | (by) |
| "C" | (see) |
| cell | (sell) |


| cent | (sent) |
| :--- | :--- |
| dew | (do) |
| due | (do) |
| eye | ("I'") |
| fore | (for) |
| forth | (fourth) |
| four | (for) |
| grate | (great) |
| hart | (heart) |
| herd | (heard) |
| here | (hear) |
| hi | (high) |
| higher | (hire) |
| hour(s) | (our(s)) |
| Inn | (in) |
| knot | (not) |
| leased | (least) |
| maid | (made) |
| no | (know) |
| new | (knew) |
| "R', | (are) |
| rap | (wrap) |
| red | (read (*)) |
| reed | (read (*)) |
| rite | (right) |
| scene | (seen) |
| sea | (see) |
| sense | (cents) |
| sine | (sigh) |
| their | (there) |
| they're | (there) |
| too | (to) |
| two | (to) |
| "U", | (you) |
| wait | (weigh(t)) |
| way | (weigh(t)) |
| wear | (where) |
| witch | (which) |
| wood | (would) |
| wright | (right) |
| write | (right) |
| won | (one) |
| (why) |  |
|  |  |
| (wher |  |

## C= commodore

Commodore Business Machines, Inc.
3330 Scott Boulevard
Santa Clara, California 95051


[^0]:    $\dagger^{\dagger}$ Singh, S., and Singh, K. S.: Phonetics Principles and Practice, University Park Press, Baltimore, MD, 1976.

[^1]:    $\dagger^{\dagger}$ Sherwood, Bruce A.: "The Computer Speaks", IEEE Spectrum, August, 1979.

[^2]:    $\ddagger$ When using the INPUT statement, this character must be shifted.

[^3]:    $\ddagger$ When using the INPUT statement, this character must be shifted.

[^4]:    $\ddagger$ When using the INPUT statement, this character must be shifted

