

Shorttyping

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## SHORTTYPING

## A System of

## Shorthand for the

Typewriter

By John Ira Brant

BLUE STAR PUBLISHING COMPANY

$$
\begin{aligned}
& 261 \text { Broadway } \\
& \text { New York }
\end{aligned}
$$

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## $\geq 51$ $+73$

## PREFACE

The contracting principles which form the basis of the stenographic systems are as applicable to type as to pen-made characters.

The system of typewriting presented herein applies those principles to type, the result being a syllabic code, based to some extent on fonetics, and employing for syllabic purposes, the special keys which ordinarily
take no part in alfabetic work. Its purpose is to secure a method of operation by which the words of a rapid speaker can be recorded verbatim with the machine.

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KEYBOARD A


KEYBOARD B

# (2) (2) (3) (3) (2) (2)(2) (2) <br> (C)(C)(C)(1)(1)®( <br>  

SPACE BAR

## ELEMENTARY ASSIGNMENTS

Each of the characters in column two is used to represent the syllables between which it stands in this list:

| Column 1 | Column 2 | Column 3 <br> Suffixes |
| :--- | :---: | :--- |
| dis | 2 | able, abel |

Each syllable in the prefix column is represented by its character from column two, when the syllable is the central syllable of the word, or occurs forward of the centre. The meanings in the suffix column are shown by their corresponding characters from column two, in all positions following the centre of the word.
disable 22 This arrangement illustrates the method followed for presenting illustrative words, the short form which follows a word, as shown at the beginning of this paragraph, being the abbreviated method of writing that word. A glance at the prefixes and suffixes in the list above, will show how this short form is derived.
label 12 In typewriting, on many machines, the small L (1) and the figure one (1) are made with the same key. This character (l) is never used in a short form as a figure to represent a syllable, but always indicates small L.

The syllabic characters, that is, those which represent syllables, are used in the short forms to represent sounds regardless of how those sounds are spelled. For instance, the sound "shun" has various spellings, all of which may be shown by the figure eight:

| action ac8 | optician opt8 | luncheon $\ln 8$ |
| :--- | :--- | :--- |
| passion pa8 | tension tn8 | ocean o8 |

The theoretical pronunciation which the dictionaries give for "cian" in "optician" is not precisely "shun," but the sound is so similar that when spoken it becomes ".hun"; so that the figure eight is used in all words of that group: politician, mathematician, etc. In this system the actual spoken sound is written.

The short forms given above are not all to be considered as the final forms, since contracting principles presented later, further reduce some of the short forms given early, the shorter combinations being shown in Chapter Nine.
part 7 t
comparing 37/
missing 6/
station ;8
protect 8t3
thing//

## FONETIC SPELLING

The system is reinforced by the following contracting expedients:

1. Omit silent letters: league leag
2. Where the name of a letter is a word, use that letter for that word: be b owe 0 why $y$
3. Words which are pronounced the same are, as a rule, shown by the same short form:
see c sea c scene on seen on
4. Whenever possible make a letter represent its full name:
beat bt seem cm decay $d k$ envy nvy Here in each instance the first letter in the short form carries the exact sound by which that letter is named when repeating the alfabet, so that every sound in the word is shown by the short form as completely as by standard spelling.
5. If there is only one vowel that produces a word when placed between two letters, that vowel may be omitted, because in such a case there can be no conflict with any other word: confide 3fd
6. The dash is never used, as such, in the short forms for compound words: dining-table dn/t2

When reading short forms consisting of two letters, the following considerations are of assistance:
A. If a word is produced by giving both letters their full names, that is the word represented:
excel xl excess xs
B. If no word results under A, give the first letter of the short form its full name:
bean bn bead bd seed cd
C. If no word results under either $A$ or $B$, give the second letter of the short form its full name:
far fr mar mr die di
D. If no word results under either $\mathrm{A}, \mathrm{B}$ or C , then a vowel is to be read between the letters from the following list, the vowels taking precedence in the order shown, viz:

| a as in | take |  |
| :--- | :--- | :--- |
| a | father |  |
| a | fall | all |
| a | " | had |
| a | " | hair |
| e | " | eat |
| e | " | yet |
| i | ivy | ivy |
| i | lid |  |


|  | in | only |
| :---: | :---: | :---: |
| $\bigcirc$ | " | on |
| u | " | unite |
| u | " | up |
| oi | " | oil |
| ou | " | out |
| 00 | " | food |
| 00 | " | foot |

fade fd late lt judge jj luggage lgj
wage wj stage ;j voidable vd2 weight wt

## CHAPTER 3

## VOWEL CHANGES

Each of the syllables shown in columns one and three on page one belongs to a group of associated syllables, and each of those groups is assigned to one character. Consequently any syllable from a group may be shown by the character assigned to that group.

The groups are shown below, being represented by the characters opposite thereto in the central column. The order in which the syllables occur in the groups is, in general, the order of their precedence for being represented by the character opposite that group, thus preventing conflict in reading.

## PREFIXES

das des dis dos dus bal bel bil bol bul
com con cog
car cor cur
kar ker kir kor kur
bra bre bri bro bru
mass mess miss moss muss
par pare per pir por pur ' pra pre pri pro pru
sha she shi sho shu
tra tre tri tro tru tar ther
sta ste sti sto stu
spa spe spi spo spu
tha the thi tho thu

## SUFFIXES

2 bal bel bil bol bul
able abel eble ible oble uble amble emble imble umble

3 act ect ict oct uct
4 ant ent int ont unt mant ment

5 ans ens ins ons uns ance ence ince once unce mans mance

6 any eny iny ony uny amy emy imy omy umy ney

7 par pare per pir por pur
8 shan shen shin shon shun san zan zhan ashun eshun ishun oshun ushun

9 ash esh ish osh ush shall shell ential, as in providential

- tar ter tir tor tur ther
; ast est ist ost ust asp esp isp osp usp
/ ang eng ing ong ung ank enk ink onk unk ath

The vital point shown by the above list is that the vowel in a syllable may be changed without changing the character which represents that syllable. The rule governing these vowel changes is that if the remainder of the word gives the clue as to which vowel must be there, the vowel is not written. If the remainder of the word does not give such clue, the vowel must be inserted, or the syllable must be shown by letters. Under those restrictions, any vowel sound in the language may be read into a syllable which is represented by a single character.
connect 33 The prefix shows which vowel is in this suffix, since there is only one (ect) in the Suffix-3 Group which will produce a word with any syllable in the Prefix-3 Group.
correct 43 . conduct 3d3 Here also the prefixes give the clue as to which vowel belongs in the suffix. If ect and uct were interchanged in these words, there would be no result in either case.

This representation of various associated syllables by the same character does not cause difficulty in reading, for as soon as thorough familiarity with the short forms is acquired, they are written and read without the slightest hesitation.
ash a9 In this case the vowel must be inserted. The figure nine at the beginning of a word indicates sh without a vowel preceding it:
share 9r
prepare 87 proper 807 Pre, standing ahead of pro, in their group, has precedence for being shown without inserting the vowel.

When it is desirable to get a short form for a much used word which, under the general rule, would have to give precedence to an obsolete word, exceptions to the general rule naturally occur: shall 9 Under the general rule, the figure nine, standing alone, would represent "shay," a word used so little that it must give way to "shall" in the suffix-9 group.

Another class of exceptions occasionally met are those in which a character in the prefix position indicates a suffix meaning, and vice versa: anticipate 4 cpt dismiss 26
privation 8iv8 provision 8v8 In this case the word of more frequent occurrence takes the shorter combination.

The assigning of short forms to two or more words that enter into competition for the same syllabic character is, in fact, not a question of adhering to any inflexible
rule, but rather a matter of the person who is using the system assigning the shortest combination to the word which he uses most frequently. But when the equities among several such competing words, from the standpoint of frequency, appear to be equal, then the general rule of giving precedence in accordance with the order in which the syllables stand in the syllabic groups, furnishes a convenient guide for making the assignments.

The reason why the characters are given one meaning at the beginning and a different meaning at the end of a word, is that certain syllables are prefixes by nature, seldom occurring in rear of the centre of a word, while with others the case is the opposite, so that various meanings can be attached to the same character, making it perform additional work. But the syllables of the "par" group occur with sufficient frequency in all positions to require one character for their exclusive use.

## FUNCTION OF THE SMALL LETTERS

The small letters may be made to do more work by having them represent additional sounds as shown below. Where this is done, the entire combination for the word gives the key as to which sound the letter represents.

LETTER SOUNDS REPRESENTED
a
you ewe 0o, as in look; um (initial);
un (initial)
$v$ ve va vay
wa, as in wave; ow, as in now; ou, as in house
y why Used for short i when the letter i is not available on account of conflict.
z sla ze zee ize
au ought, as in bought; aught, as in naught
axiom xim This illustrates how one letter may represent several sounds and at the same time escape conflict, since the remainder of the word gives the key as to the sound intended. In xim no word results by calling $x$ "ex"; consequently it must be the alternative, ax.
park 7c beak bk Apparent inconsistencies will occasionally be noticed, as shown in these two words, in representing the $k$ sound. The abbreviated forms are not worked out in strict adherence to fonetics. When there is room to select between cor $k$, the one is used which gives the quicker sequence of letters, the speedy movements in typewriting operation being where one hand follows the other.

This consideration requires that the $k$ sound before $l$ be shown by c ; before r by k . But this difficulty with the syllables cra and cla is solved on the larger keyboards, Chapter Twelve, by their being assigned to syllabic characters.

When final c represents the $k$ sound, it (the final c) is generally associated with a short vowel, whether the vowel be omitted or expressed. Final $k$ to show the $k$ sound is generally associated with a long vowel when the vowel is omitted:

| lack lc | lake lk | leak lek | lick lyc |
| :--- | :--- | :--- | :--- |
| like lik | lock loc | look luk | luck luc |

luke luk
In lyc is seen the use of $y$ to indicate short $i$, corresponding with the use of $y$ for the same purpose in standard spelling, as in "money." In the short forms both $i$ and y are lised for short i, depending upon which produces the quicker sequence of keys; but y must be used when needed to prevent conflict, as with a pair of words such as "like" and "lick."

The sound ow as in now (also shown in standard spelling by ou in house) is generally represented in the short forms by $w:$
down dwn now nw house hws

But in a few cases 0 is used where it is available and gives a quicker movement than w: amount ao4 sound so\& unsound uso\&
Small letters are doubled and tripled for the syllables, words and frases shown below:

| aa | crat, as in democrat bant bent |
| :---: | :---: |
| cc (initial) | scra, as in scrawl |
| cc (final) | cracy |
| dd | hold |
| ff | efficient |
| ff (final) | ficient fulness fant fent |
| fff | efficiency |
| fff (final) | ficiency |
| gg | agnify ignify ignifi agnanim gant, as in extravagant |
| hh | Used for ther when the dash is not available on account of conflict. |
| jj | judge |
| kk (final) | cific lific tific entific ratic matic cratic |
| 11 | cler, as in clerk |
| 11 (final) | lessness |
| 111 | lawlessness |
| mm | member |
| mmm | memerandum |
| nn | noon |
| 00 | of our |
| oo (final) | owledge ology nology |
| qq | acular nacular icular ticular culiar, as in peculiar |
| SS | satis ses, as in disposes |
| sss | sizes |
| tt | trast trist trust teristic |
| ttt | trust it |
| uu | sult zult |
| vv | vant vent |
| WW | spra |
| XX | change |
| xXX | exchange |
| yy | dict vict divid |
| zz | zez |

When different meanings are assigned to the same key or to the same combination, it does not follow that all of those meanings are so indicated in every instance, but it means that they may be used provided no conflict results. For example:
infant if4 inefficient iff Opposite ff in the above list, fant and efficient both appear, but if ff were used in both words here shown, a conflict might result. The contractions bb, ff, gg, and vv, for bant, fant, gant, and vant, respectively, while not reducing the number of touches as compared with b4, f4, g4, and v4, are used to increase speed.

Miscellaneous examples of contractions referred to in this chapter:

| announce | a5 | unchangeable | uxx2 |
| :--- | :--- | :--- | :--- |
| inform | ifm | slash | z9 |
| immediate | ied | democracy | dmcc |
| counsel | k51 | holding | dd/ |
| consult | $3 u u$ | deficient | dff |
| subject | sj3 | particular | $7 q 9$ |

## CHAPTER 5

## USE OF THE CAPITALS

The capital letters are used for the syllables containe in the following list, with the privilege of changing the vowels under the rules stated in Chapter Three.

The conditions under which the same capital letter may have one meaning in the prefix position, and a different meaning as a suffix, are the same as those governing the other syllabic characters.

PREFIX
$a b$
bIa
sea, as in scatter
ad od
ed
fra
gra gar
hear char cham
il ill jg
jar jan jarn
kale kall
al el ul
mar am em
mar an en
ob ord
plea pan
quar cure
ar er ser sir
as es les
out et it ot ut

A bans fans gans pans tance vans zance
$B$ bia berg burgh bourg
C city acity icity osity uosity scope
D der dure ded
E ted
F fra graph
G gram gar
H har ham han hand
I ty thy aty ity dity tity anity ice vice
J jar jan jars
$K$ karl kall ical dical tical itical apital

L lar
ality ility tility
bility ability
$M$ mar gram gramme
N near
0 ord cord
$P$ pla pan
Q quar cure score
$R$ sar sir arity
$S$ les, as in cases as es
$T$ live tank tent out
up
var
war
ext man
yar sure
sal sel cell

U duce dule tude
V ivity tivity
vate var
$W$ ward word var
$X$ man ext
$Y$ sure tsure ture zure
yar
ion, as in million
Z dize lize mize nize
rize size thize vize wise
sal sel cell

| margin Mjn | activity ktV | manage $\quad$ Xj |
| :--- | :--- | :--- |
| manner mN | preserve 8Rv | sociability s9L |

In the abbreviated forms the capitals are never used for the purpose which they serve in standard spelling:

Denver dnV Liverpool IV) France F5
In the case of France, the short form begins with capital $F$, not because the word is the name of a country, but because capital $F$ represents the syllable fra.

With capital 0 to represent vowel plus rd, the present tense is of ten changed to past tense, without increasing the number of characters:
hire hir hired hio wire yr wired y0
Sometimes the past tense is a shorter form than the corresponding present tense:
dare dar dared do pour por poured p0

## COMPOUND ASSIGNMENTS

The characters standing in the central column below are used for the compound syllables shown, and are also available to indicate the simple syllables in the following list, with the privilege of changing the vowels under the rules given in Chapter Three.

## PREFIXES

| ten | tem trans | " | ten tem assable sessible sistible ustible |
| :---: | :---: | :---: | :---: |
| stra | super claim | \# | stra ster straction struction claim |
| dra | contra counter | \$ | dra counter sation cession zession ization lization lition |
| tel <br> recom | tell recon recog recor | \% | tel tell beration bration deration dration geration gration teration tration tuation stration stition stitution poration tiation |
| bate undou | unde under indur endure | - | bate under stand |
| and accom | $\begin{aligned} & \text { mand } \\ & m \quad \text { accomp } \end{aligned}$ | \& | and mand <br> imate timate estimate <br> ulate tulate tunate <br> uctuate icipate ipulate <br> itulate porate |
| fla | over aver | - | fla <br> bation dation gation <br> kation lation mation <br> nation pation qution <br> ration tation vation |
| fal | appra | 1 | fal full |
| pal | impar | ) | pal ample imple eous ious uous |
| far incom incor | incon incog | : | far <br> fy-ify cify dify nify tify form |
|  |  |  |  |

bate unde under _ bate under stand undou indur endure and mand accom accomp
fla over aver
fal appra
pal impar
far
incom incon incog incor

SUFFIXES
bar
ry try ary dary mary rary tary trary porary endary oundary ordinary
val
enter inter intra
possession
$\mathrm{p} \$$
interval
recommend
extraordinary
overestimate
accommodation
position
understand
superstition
?
val
action ection iction uction

| transaction | $" ?$ |
| :--- | :--- |
| construction | $3 \#$, |
| temptation | tm |
| counterclaim | $\$ \#$ |
| bargain | $:$ gn |
| incorporation | $: \%$ |
| appreciation | $i \%$ |
| impartial | 19 |
| translation | ". |

The compound "ification" may be shown either by f8 or :' When the character which precedes this compound requires the shift key, use :' In other cases, f8 is generally used:

$$
\text { gratification G:' justification } j ; f 8
$$

But since the colon may represent cify, tify, etc., a touch may of ten be saved by using :' after a character which does not require the shift: specification ,: ' On a board having no shift key either combination may be used.

When two words differ only in a vowel sound, it is generally necessary to insert the vowel in one of the short forms:
command 3\& communed 3u\& In $3 u \&$ is also seen how the standard meaning of any syllabic character is altered by a change of vowel, when it becomes necessary to insert the vowel. In $3 u \&$ the $u$ cancels the a which is ordinarily included in the character \&, so that u\& represents und.

If two similar words do not conflict, one abbreviated form may represent both:

$$
\text { sever } s V \quad \text { severe } s V
$$

Since the undersore at the end of a word, and in some cases in the body of a word, carries the meaning "stand," the word "understand" is shown by the doubled underscore. "Misunderstand" and "misunderstanding" also require the doubled underscore. "Under" when beginning a word is shown by the single underscore.

## CHAPTER 7

## WORD-SIGNS

Single characters are used to represent words as shown below. The characters so used are known as wordsigns; the words which they represent are called signwords.

| Word- <br> sign | Signword | Word- <br> sign | Signword |
| :---: | :---: | :---: | :---: |
| a | a an | A | same |
| b | be bee | B | but |
| c | sea see | C | city could |
| d | day and | D | did deed |
| e | the | E | each |
| $f$ | for | F | from |
| g | give | G | against |
| h | which | H | hear here |
| i | in eye I | I | if |
| j | not | J | some |
| k | know no | K | upon call |
| 1 | law will (in frasing) | L | all |
| m | me my may | M | more |
| n | on | N | nor |
| $\bigcirc$ | of | 0 | who |
| p | he | P | had |
| q | to too two | Q | after |
| r | are our hour | R | or |
| s | is us | S | so |
| t | it | T | out |
| u | you | U | up |
| v | have | V | very |
| w | we with | W | where wear were |
| x | as | X | him man (final) |
| y | why one | $Y$ | year sure your |
| $z$ | was use (verb) <br> in frasing | Z | sell whose |
| 2 | able am | " | time ten (in frasing) |
| 3 | can | \# | would |
| 4 | other | \$ | many |
| 5 | that | \% | them |
| 6 | any | - | under |


| 8 | such | \& | they |
| :--- | :--- | :--- | :--- |
| 9 | shall | over |  |
| - | there their | ( | made |
|  |  | make |  |
| ; | state | what |  |
| , has | this thing (final) ? | bhom |  |
| / | been |  |  |

It is not the same.
Are you sure you can see him? We know he has been there for some time.
$t \operatorname{s}$ e A
r $u$ Y u 3 c X
w k p, ? - f J"

## MISCELLANEOUS CONTRACTIONS

The syllables in column $l$ are represented by the contractions placed opposite in Column 2.

Column 1
Standard

| ade | d |
| :---: | :---: |
| apt | ap |
| ate | t |
| body | by |
| cate | k |
| cept | cp |
| cks | $\mathbf{x}$ |
| cute | q |
| date | d |
| diate | d |
| ept | ep |
| gate | g |
| half | hf |
| house | hs |
| ight | it |
| Also shown by i when no conflict results |  |
| ignification | : |
| late | $1 t$ |
| less | 1s |
| li (initial) | x |
| ly | x |
| ness | ns |
| ography | Fy |
| pate | p |
| phone | fn |
| quate | k |
| quence | q5 |
| quent | q4 |
| self | Zf |
| selves | Zs |
| ship, after |  |
| n or r | p |
| ship, elsewhere | 9 p |

EXAMPLES
Standard
Short
Form
Bkd
Dap
At eVby
idk
kcp
rox
aq
\& d
?md
Dep
iv;g
yhf c4/hs
lit
light lit
blight Bi
signification s:
regulate rglt
careless 4ls
lit xt
ably Ax
goodness gdns

| stenography | $; \mathrm{nFy}$ |
| :--- | :--- |
| anticipate | 4 cp |
| telephone | $\% \mathrm{fn}$ |
| adequate | Dk |
| consequence | $3 \mathrm{cq5}$ |
| subsequent | scq4 |
| yourself | YZf |
| themselves | $/ \mathrm{mZs}$ |


| seamanship | cXp |
| :--- | :--- |
| shipment | $9 p 4$ |
| constitute | $3 ; t t$ |

Of the syllables in column 1, which are also words, apt, half, late and less are written as shown in column 2, whether they occur alone or in combination as part of a larger word.

The other syllables in column 1 which are also words (ate, body, cute, date, gate, house and ship) are written as shown in column 2, only when they occur in combination as part of a larger word; when standing alone they are written as shown in Chapter Nine.

## VOCABULARY

There are numerous cases in the following short forms, where an additional touch may be avoided by omission of a vowel under paragraph 5, Chapter Two. In fact, these short forms are not all to be considered as ultimate reductions. They serve merely as a basis for further contractions, which proceed along lines governed by the particular keyboard used. This matter is treated more fully hereafter.

As a preliminary to practice in writing these short forms, it will be an advantage, if the keyboard used contains additional characters as shown in Chapter Twelve, to examine that chapter before beginning the practice work. The short forms can then be given the further reductions possible, in accordance with the assignments there made.

| A |  | absorption | ARp8 |
| :---: | :---: | :---: | :---: |
| abandon | A\&n | abstain | A; ${ }^{\text {n }}$ |
| abandonment | A\&n4 | abstract | A\#3 |
| abate | At | abstraction | A\# |
| abatement | At4 | absurd | ARd |
| abbreviate | a5vt | absurdity | ARI |
| abbreviation | a5v8 | abundance | A\&5 |
| abdication | Ad' | abundant | A\&4 |
| abduct | Ad3 | abuse | Aus |
| abduction | Ad? | abut | Aut |
| abeyance | Aa5 | abutment | Aut4 |
| abide | Aid | abutting | Aut/ |
| abiding | Aid/ | academy | kd6 |
| ability | AL | accede | kcd |
| abject | Aj3 | accent | ks4 |
| able | 2 | accept | kcp |
| ably | Ax | acceptable | kcp2 |
| abnormal | ANml | acceptance | kep5 |
| abnormally | ANmx | access | xS |
| abolish | A19 | accessible | $\mathrm{k}^{\prime \prime}$ |
| abound | A\& | accident | xd4 |
| about | AT | accidental | xd41 |
| above | Av | accommodate | \& ${ }^{\text {d }}$ |
| abridgment | a5j4 | accommodating | \& d/ |
| abroad | a5d | accommodation | \& ${ }^{\text {c }}$ |
| abrogate | a5g | accompany | \&6 |
| abrogation | a5 | accomplice | \& 15 |
| abscond | AC\& | accomplish | \&19 |
| absence | AA | accomplished | \&19t |
| absent | As4 | accomplishment | \&194 |
| absentee | As4e | accord | k0 |
| absolute | AZt | accordance | k05 |


| according | k0/ | admittance | DinA |
| :---: | :---: | :---: | :---: |
| accordingly | k0/x | admitted | DmE |
| account | k4 | adopt | Dop |
| accountable | k42 | adult | Dul |
| accountant | k44 | advance | DA |
| accounting | k4/ | advantage | Dvvj |
| accrue | kru | adversary | DVs. |
| accumulate | qm\& | adverse | DVs |
| accumulation | qm\&8 | advertise | DVZ |
| accuracy | qre | advice | DI |
| accurate | qrit | advisable | DZ2 |
| accusation | q\$ | advise | DZ |
| accuse | qs | advocate | Dvk |
| accustomed | k;md | affair | a |
| achieve | ahv | affect | af3 |
| acknowledge | koo | affidavit | fdv |
| acknowledging | koo/ | affiliate | a/t |
| acknowledgment | koo4 | affirm | a:m |
| acquainted | kw 4 d | affix | afx |
| acquiesce | kwS | afford | afd |
| acquire | kwr | aforesaid | afsd |
| acquisition | kws8 | afraid | aFd |
| acquit | kwt | after |  |
| across | kros | afternoon | Qnn |
| act | kt | afterwards | QWs |
| action | ? | again | agn |
| activity | ktV | against | G |
| actual | kt9 | age | j |
| acute | aq | agency | aJc |
| adapt | Dap | agent | aj4 |
| addict | D3 | aggression | G8 |
| addition | D8 | agitation | j |
| additional | D81 | agreeable | G2 |
| address | a\$s | ahead | ahd |
| ademption | Dm8 | aid | ad |
| adept | Dep | aim | am |
| adequate | Dk | air | ar |
| adhere | DH | alienate | Lnt |
| adjacent | js4 | alike | Lik |
| adjoining | ajn/ | alimony | LXy |
| adjourn | aJ | all | L |
| adjudicate | jdk | allegation | L' |
| adjust | aj; | allege | Lj |
| administer | DX\# | allotment | Lt4 |
| administration | DX\% | allowance | Lw5 |
| admirable | DM2 | allowing | Lw/ |
| admissibility | D6L | almost | Lm; |
| admissible | D62 | alone | Lon |
| admission | Dmi8 | along | Lo/ |
| admit | Dmt | alphabet | Lf. |


| alphabetic | Lf_c | appoint | ap4 |
| :---: | :---: | :---: | :---: |
| already | Lrd | appointment | ap44 |
| also | LS | apportion | a78 |
| alter | L- | appraise | (z |
| although | L/o | appraiser | (zr |
| altitude | LtU | appreciable | $(92$ |
| altogther | Ltg- | appreciate | (9t |
| always | Lws | appreciation | (\% |
| am | 2 | approach | (h |
| ambition | ab8 | appropriate | 18 t |
| ambitious | ab9s | appropriation | (88 |
| amend | a\& | approval | (? |
| amendment | a\&4 | approve | (v |
| among | ao/ | approximate |  |
| amount | ao4 | appurtenance | a7"5 |
| amputation | ap' | April | a81 |
| an | a | apt | ap |
| ancestor | ac\# | arbitrary | R- |
| anchor | /r | arbitrate | R-rt |
| ancient | a94 | arbitration | $\mathrm{Rb} \%$ |
| and | d | architect | Rkt3 |
| anger | /gr | are | r |
| announce | a5 | argue | rgu |
| another | a4 | argument | rg4 |
| answer | 5 r | arise | aZ |
| anticipate | 4 cp | arm | Rm |
| any | 6 | arose | Ros |
| apart | a7t | around |  |
| apartment | a7t4 | arouse | Rws |
| apiece | aps | arraigned |  |
| apologize | a) Z | arraignment | Rn4 |
| apparent | a'74 | arrange | Rnj |
| appeal | a) | array | Ra |
| appear | a7 | arrear | Rr |
| appearance | a 75 | arrest | R; |
| appellant | a) 4 | arrive | Riv |
| appellate | a) t | arrival | Ri? |
| appellee | a) e | arson | R8 |
| append | ap\& | article | RK |
| appendix | ap\&x | artificial | Rtf9 |
| appertain | a7" | as | x |
| apple | apl | ascend | Snd |
| apples | apls | ascertain | $a{ }^{\prime \prime}$ |
| appliance | aP5 | ash | a9 |
| applicable | aPk2 | aside | Sid |
| applicant | aPk4 | ask | Sk |
| application | aP' | aspect | Sp3 |
| applied | aPid | aspirant | S74 |
| applies | aPz | aspiration | S\% |
| apply | aP | aspire | S7 |


| assail | Sl | autumn |  | $\mathrm{a}^{\prime \prime}$ |
| :---: | :---: | :---: | :---: | :---: |
| assassin | Ssn | autumnal |  | $\mathrm{a}^{\prime \prime} \mathrm{n} 1$ |
| assassination | Ss' | available |  | a?2 |
| assault | S1t | avenge |  | avnj |
| assemblage | S2j | avenue |  | avnu |
| assemble | S2 | aver |  | aV |
| assent | S4 | average |  | 'j |
| assertion | Sr8 | aversion |  | ' 8 |
| assess | Ss | avoid |  | avd |
| assesses | SS | await |  | awt |
| assessment | Ss4 | award |  | aW |
| assets | Sts | aware |  | awr |
| assign | Sn | away |  | aw |
| assigned | S\& | awe |  | aw |
| assignee | Sne | awful |  | awf |
| assignment | Sn4 | awning |  | an/ |
| assignor | SN | axiom |  | xim |
| assist | Si; | axis |  | axs |
| assistance | S;5 | axle |  | axl |
| assistant | S;4 |  |  |  |
| association | So\% |  | B |  |
| assortment | Srt4 | back |  | bc |
| assume | Sm | backed |  | b3 |
| assumption | Sm8 | backward |  | bcW |
| assure | aY | badly |  | bdx |
| astonishing | S'9/ | badge |  | bj |
| astray | a\#a | baffle |  | bl |
| at | at | baggage |  | bgj |
| ate | at | bail |  | bal |
| Atlantic | at14c | bake |  | bk |
| attach | ath | balance |  | 25 |
| attack | atc | ballot |  | 20t |
| attainable | a"2 | band |  |  |
| attained | at\& | banded |  | b\&d |
| attempt | $\mathrm{a}^{\prime \prime} \mathrm{t}$ | banish |  | bn9 |
| attend | a"d | bank |  | bnk |
| attention | $\mathrm{a}^{\prime \prime} 8$ | banker |  | $b / r$ |
| attest | at; | banking |  | $\mathrm{b} / /$ |
| attestation | at;8 | bankrupt |  | $\mathrm{b} / \mathrm{rp}$ |
| attitude | atU | bankruptcy |  | b/rpc |
| attorney | a-6 | banner |  | bN |
| attract | a-3 | bar |  | br |
| attribute | a- | bargain |  | .gn |
| auction | ac8 | barge |  | . j |
| audible | ad2 | barn | - | brn |
| auditor | ad- | barred |  | .d |
| August | ag; | barrel |  | . 1 |
| authentic | $a / 4 \mathrm{c}$ | base |  | bs |
| authority | $a-R$ | basement |  | bs4 |
| authorize | $a-Z$ | bases |  | bS |


| basin | bsn | berth | .th |
| :---: | :---: | :---: | :---: |
| basis | bss | beside | bsd |
| battle | b\% | best | b; |
| bay | ba | bestow | b:o |
| be | b | betray | b-a |
| beach | bh | better | be- |
| bead | bd | between | bwn |
| bean | on | beverage | bVj |
| beak | bk | beware | bwr |
| bear | bar | beyond |  |
| bearing | ./ | bias | biS |
| bearish | . 9 | big | bg |
| beat | bt | bilge | blj |
| beaten | $\mathrm{b}^{\prime \prime}$ | bill | byl |
| beating | bt/ | billed | 2d |
| beautiful | -1 | billing | 2/ |
| became | bkm | bind |  |
| because | bks | binding | bi\&/ |
| beckon | ben | biting | bit/ |
| become | bcm | bitter | bi- |
| becoming | b3/ | bitterly | b-x |
| bee | b | black | Bc |
| been | ? | blame | Bm |
| before | bf | blank | B/ |
| beforehand | bfH | blanket | B/T |
| befriend | bF\& | blend |  |
| beg | bg | blew | Bu |
| begin | bgn | blight | Bi |
| beginner | bgN | blind |  |
| beginning | bgn/ | block | Boc |
| begrudge | bGj | blockade | Bkd |
| behalf | bhf | blotting | Btt/ |
| behave | bhv | blow | Bo |
| behind | bh\& | blowing | Bo/ |
| being | b/ | blue | Bu |
| belief | 21 | bluff | Bf |
| believe | 2v | blunder | Bnd |
| belligerent | 2 J 4 | blunt | B4 |
| belong | 20/ | blurr | Bur |
| belonging | 20// | board | b0 |
| below | 20 | boastful | bo ; f |
| belt | blt | boat | bot |
| bench | bnh | bodily | bodx |
| bend | bnd | body | bdy |
| beneath | bn/ | boiler | boL |
| beneficial | bnf9 | bomb | bom |
| benefit | bnft | bond |  |
| bent | bb | bonus | bnS |
| bequeath | ba/ | book | buk |
| bequest | $b q$; | bookkeeper | bk7 |



| case | ks | chasing | hs/ |
| :---: | :---: | :---: | :---: |
| cases | kS | chattel | $\mathrm{h} \%$ |
| cash | k9 | cheap | hp |
| cashier | k9r | cheating | cht/ |
| cast | ca; | check | hk |
| casting | ca; / | checking | hk/ |
| catalogue | ktlg | cheerful | Hf |
| catch | kh | chief | hef |
| causation | ks8 | chiefly | hfx |
| cause | kz | choice | hos |
| caution | k8 | choose | huz |
| cautionary | k8. | choosing | huz/ |
| cautious | k9s | Christianity | kr; I |
| cease | cs | chronology | kroo |
| ceased | c; | church | Hh |
| ceases | cS | cipher | ci: |
| cede | cd | circle | crK |
| ceiling | cl/ | circuit | Rk |
| celebration | Z\% | circulate |  |
| cellar | sL | circulation | Rq' |
| cement | c4 | circumstance | R3;5 |
| censure | s4Y | circumstantial | R3;9 |
| cent | S4 | citation | $c^{\prime}$ |
| central | S4rl | citizen | Czn |
| centralization | s4r\$ | citizenship | Cznp |
| centralize | s4rZ | city | C |
| centre | s4r | civil | c? |
| century | s4Yy | civilization | c?\$ |
| cereal | Rl | civilize | c?z |
| certain | $\mathrm{R}^{\prime \prime}$ | claim | clm |
| certificate | R: k | classification | cl:' |
| certification | R:' | classify | cl: |
| certify | R : | clause | clz |
| chairman | HX | clean | cln |
| challenge | hlnj | clear | 11 |
| chamberlain | H. 1 n | clearing | 11/ |
| champion | hmP | clearly | 11x |
| chance | h5 | clerk | 11k |
| chancellor | h5L | client | cli4 |
| chancery | h5. | climax | clmx |
| change | xx | climbing | clim/ |
| changeable | xx2 | cling | cli/ |
| chapter | hp- | clinging | cli// |
| character | 43 r | cloak | clok |
| characteristic | 4 ktt | close (adj) | clos |
| charge | Hj | close (verb) | cloz |
| chargeable | Hj 2 | clothing | cl// |
| charter | H- | clutch | clh |
| contempt | 3"t | coalition | ka\$ |
| chartered | H-d | coarse | krs |


| coast | coa; | compliment | 3Pm4 |
| :---: | :---: | :---: | :---: |
| sode | kd | composition | 3ps8 |
| codicil | kdZ | compound |  |
| coercion | kR8 | comprehend |  |
| cognizance | 3nA | comprise | 382 |
| cohabit | kh | compromise | 382 |
| coinage | knj | computation | 3pu' |
| coincide | kncd | compute | 3put |
| coincidence | kncA | conceal | 3 cl |
| collapse | Kps | concede | 3cd |
| collateral | K-1 | conceive | 3cv |
| collect | K3 | concentrate | $3 \mathrm{cn}-\mathrm{t}$ |
| collection | K? | conception | 3 cp 8 |
| college | Kj | concern | 3 Rn |
| collision | Ki8 | concession | 3\$ |
| collusion | Ku8 | conclusion | 3 kl 18 |
| column | Km | concrete | 3 krt |
| combination | $3{ }^{\prime}$ | condemn | 3 dm |
| combine | 3 bn | condemnation | $3 \mathrm{dm}{ }^{\prime}$ |
| combustible | $3 \mathrm{~b}^{\prime \prime}$ | condense | 3d5 |
| come | com | condition | 3d8 |
| comfortable | 3ft2 | conduct | 3d3 |
| coming | 3/ | confection | 3f? |
| command | 3\& | confer | 3: |
| commandant | $3 \& 4$ | confess | 3 fs |
| commence | 35 | confident | 3fd4 |
| comment | 34 | confide | 3fd |
| commercial | 3 r 9 | confidential | 3fd9 |
| commission | 3 i 8 | confinement | 3fn4 |
| commit | 3it | confirmation | 3: |
| committee | 3 I | confiscate | 3fsk |
| commodity | 301 | conflict | 3'3 |
| common | 3 n | conform | 3fm |
| communed | 3u\& | conformation | $3 \mathrm{f}^{\prime}$ |
| communicate | 3nik | confuse | 3 fus |
| communication | 3 ni ' | congeal | 3 jl |
| commute | 3ut | congestion | 3j;8 |
| company | 3 p 6 | congratulate |  |
| comparative | 37 T | congress | 3Gs |
| compare | 37 | conjecture | 3j3Y |
| comparing | 37/ | conjunction | 31/8 |
| compel | 3) | connect | 33 |
| compensation | 3P\$ | connection | 3 ? |
| compete | 3pt | conscientious | 39n9s |
| competition | 3pt8 | conscious | 39s |
| complain | 3 Pn | consecutive | 3skT |
| complaint | 3P4 | consent | 3s4 |
| complete | 3 Pt | consequence | $3 \mathrm{cq5}$ |
| compliant | 3Pi4 | conservative | 3RvT |
| complication | 3 P ' | conserve | 3 Rv |

consider
considerable
consideration
consign
consignee
consist
consolidate
conspicuous
constant
constantly
constitute
constitution
constitutionality
construct
construction
construe
consult
consultation
consummation
consumption
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contemplate
contemporary
contemptible
contend
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contest
context
continental
contingent
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contrast
contribute
contribution
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controversy
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convenient
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corroborate
corrosion
corrupt
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council
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counselor
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counterclaim
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covenant
cover
coward
crash
crate
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krat
kret
kre8

| credential | krdn9 | deceit | dct |
| :---: | :---: | :---: | :---: |
| credit | crdt | deceive | dcv |
| crime | krim | December | dcm |
| critical | krK | decent | dc4 |
| criticism | krtSm | deception | dcp8 |
| cross | cros | decide | dod |
| cruelty | krlI | decision | d \$ |
| crush | kru9 | decisive | desv |
| crying | kri/ | declaration | dl18 |
| culminate | KXt | declare | dll |
| cultivate | KtV | decline | dcln |
| cumbersome | 3.5 m | decorate | d4t |
| cumulative | 3ulT | decrease | dkrs |
| curiosity | 4 C | decreased | dkr ; |
| curious | 4) | decree | dkre |
| currency | $45 y$ | dedicate | ddk |
| current | 44 | dedication | dd' |
| curtailment | $4 \% 4$ | deduce | dU |
| custodian | $k$; dn | deduct | dd3 |
| custody | k; d | deduction | dd? |
| custom | k;m | deed | D |
| cute | qt | deem | dm |
| cylinder | Z\&r | deep | dp |
|  |  | default | d 1 t |
|  |  | defaulter | d $1-$ |
| daily | dax | defeasible | dfs2 |
| damage | dmj | defeat | dft |
| dance | d5 | defect | df3 |
| dare | dar | defective | df3v |
| dared | do | defense | dA |
| daring | dr/ | defend |  |
| dark | drk | defendant | df \& 4 |
| darken | drkn | defendants | df\&5 |
| darkness | drkns | defer | d: |
| dash | d9 | defiance | dfi5 |
| date | dt | defiant | dfi4 |
| dating | dt/ | deficiency | dfff |
| day | d | deficient | dff |
| deal | dl | deficit | dfet |
| dealer | dL | define | dfn |
| dean | dn | definite | dfnt |
| dear | dr | definition | dfn 8 |
| dearly | drx | deflect | d'3 |
| death | dth | deform | dfm |
| debate | d | defraud | dFd |
| debenture | dbnY | defray | dF |
| debit | dbit | defunct | df/t |
| debt | dbt | defy | dfi |
| debtor | de- | degenerate | dJrt |
| decay | dk | degree | dG |


| dejected | dj3d | desire | dR |
| :---: | :---: | :---: | :---: |
| delay | dla | despatch | d, h |
| delegate | dlg | despise | d, z |
| deliberate | dl.t | destination | d;' |
| deliberation | dl\% | destitution | d; t 8 |
| delicate | dlik | destruction | d\# |
| delight | dli | detail | d\% |
| delighted | dliE | detect | dt3 |
| delinquent | dl/4 | determination | d-X8 |
| deliver | dlv | detract | d-3 |
| delivery | dlvy | detrimental | d-41 |
| delusion | dlu8 | develop | d?p |
| demand | dm\& | development | d?p4 |
| demarcation | dM ${ }^{\prime}$ | devise | dZ |
| demise | dmz | devisee | dZe |
| democracy | dmec | devoted | dvoE |
| democrat | dmaa | dictate | dktt. |
| demolish | dm19 | dictation | dk' |
| demonstrate | dX\#t | did | D |
| demoralize | dMZ | die | di |
| demur | dM | differ | di: |
| demurrage | dMj | difficult | dfKt |
| denial | dnil | digging | dg/ |
| denomination | dnX8 | dignify | dgg |
| denounce | dn5 | dignity | dgnI |
| dent | d4 | diligent | dlj4 |
| dented | d4d | dimension | dix8 |
| Denver | dnV | diminish | dX9 |
| deny | dni | diminution | dXu8 |
| depart | d7t | dining-room | $\mathrm{dn} / \mathrm{rm}$ |
| department | d7t4 | dining-table | $\mathrm{dn} / \mathrm{t} 2$ |
| departure | d7Y | direct | dr3 |
| dependence | dp\&5 | disable | 22 |
| dependent | dp\&4 | disability | 2L |
| depict | dp3 | disadvantage | 2 Dvvj |
| deplorable | dpL2 | disagreeable | $2 \mathrm{G2}$ |
| deponent | dP4 | disappear | 2 a 7 |
| depose | dpos | discipline | 2 Pn |
| deposit | dpst | disconnect | 233 |
| deposition | dps8 | discontinue | 23"u |
| depreciate | d89t | discord | 20 |
| deprive | d8iv | discount | 2k4 |
| derivation | dr ${ }^{\prime}$ | discourage | 24j |
| descent | ds4 | discover | 2kV |
| description | dccp8 | discretion | 2 kr 8 |
| desert (noun) | 2 rt | discriminate | 2 krXt |
| desert (verb) | dRt | discuss | 2kus |
| deserve | dRv | disease | 22 |
| design | dsn | dish | di9 |
| designate | 2gnt | dishonest | 2 n ; |


| dismiss | 26 | during | dur/ |
| :---: | :---: | :---: | :---: |
| disobey | 20b | dwelling | dwl/ |
| display | 2 P | dyeing | di/ |
| dispose | 2 ps | dying | di/ |
| disposes | 2pss |  |  |
| dispossess | 2 pS |  |  |
| dispossesses | 2pSs | each | E |
| dispute | 2put | earlier | rlr |
| dissatisfaction | 2ssf? | early | rx |
| dissent | 24 | earn | urn |
| dissolution | 2148 | earth | urt |
| dissolve | 21 v | ease | ez |
| distance | 2A | easement | z4 |
| distant | 2 T | easiest | z; |
| distinct | 2t/t | easily | zx |
| distraction | 2-? | east | e; |
| distribution | 2-b8 | eastern | e\#n |
| district | 2-i3 | eastward | e; ${ }^{\text {d }}$ |
| divergence | dVA | easy | zy |
| divert | dVt | eat | et |
| divest | dv; | economize | e3Z |
| divide | yy | edge | ej |
| dividend | yy\& | edification | e: |
| division | dv8 | edition | ed8 |
| do | du | editor | ed- |
| doctor | dc- | education | ed' |
| document | dq4 | effaced | ef ; |
| does | ds | effect | ef 3 |
| dollar | doL | efficiency | fff |
| domestic | dm; c | efficient | ff |
| done | dun | effort | eft |
| donor | doN | either | e- |
| double | du2 | eject | ej3 |
| doubled | du2d | ejection | ej? |
| doubt | dT | ejectment | ej34 |
| doubtful | dT ( | elapse | Lps |
| down | dwn | elation | L8 |
| dozen | dzn | elder | LD |
| draft | \$ f | elect | L3 |
| drainage | \$nj | election | L? |
| dressing | \$s/ | electricity | Lc-C |
| drinking | \$// | element | L4 |
| due | du | elementary | L4. |
| dumb | dum | elevate | LV |
| duplication | dP' | elevated | LvE |
| durable | dur2 | elevator | Lv- |
| duration | dur8 | eligible | L.j2 |

eliminate
elk
else
elsewhere
embarrass
embody
embrace
emerge
emigration
empanel
emphasize
employ
employee
employer
employment
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enact
enclose
enclosed
enclosing
enclosure
encounter
encourage
end
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endless
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enforcement
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enjoin
enjoy
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enlarge
enormous
enough
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LXt Lk
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equal eql
equality eqL
equalize eqZ
equipment qp4
equitable qt2
equity
equivalent
qI
erect R3
error Rr
escape Skp
especially e,9y
establish ;B9
establishment ;B94
estate e;t
estimate e\&
evade evd
evasion ev8
even evn
evening evn/
event evv
ever eV
every eVy
everybody eVby
everyday eVd
everything eV/
everywhere eVW
evict ev3
eviction ev?
evidence evd5
evident evd4
ewe
exact
exaction
exaggerate
examination
examine
example
excavation
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exception
exceptionable
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xaJt
xaX8
xaX
XII)
xk'
xcd
xl
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xcp82
xs
xxx
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xcld
xqs
execute .
execution
xq
$x^{\prime}$
xq-
xmt
xm8
xrZ
xr8
x;
xb8
xi;
xi;/
xNt
xrbT
xp\&
xA
xpn8
xp3
xp38
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xp5
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fact f3
faction f?
factor f3r
fade fd
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faithful f/f
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fell fl
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fiduciary fdg.
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file fil
fill fyl
final fnl

| finance | fn5 | freehold | Fdd |
| :---: | :---: | :---: | :---: |
| financial | fnn9 | freezing | Fez/ |
| find | fi\& | frequent | Fq4 |
| fine | fn | fresh | F9 |
| fined | fi\& | friction | Fi? |
| finish | fn9 | Friday | Fd |
| finishing | fn9/ | friendly | F\&x |
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| first | : ; | from | F |
| fixed | fX | front | Fo4 |
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| flash | '9 | frozen | Fzn |
| flat | ' | fruitful | Futf |
| flavor | , V | frustrate | F\#t |
| flexible | 'x2 | fuel | fuL |
| flight | 'it | fugitive | fjT |
| float | 'ot | fulfil | 11 |
| floor | - or | full | ful |
| flow | '0 | fully | ( y |
| fluctuation | '0\% | fulness | (ns |
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| following | $10 /$ | function | f/8 |
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| forbid | fbd | fundamentally | f\&4x |
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| force | : s | funny | f6 |
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| foreign | : n | furnish | : n 9 |
| foresight | fsi | furniture | : n Y |
| forfeit | fft | further | :- |
| forfeiture | ffY | fusion | fu8 |
| forge | $f \mathrm{j}$ | futile | fu\% |
| forgery | fj. | future | fuY |
| form | fm |  |  |
| formality | fmL | G |  |
| former | fM | gage | gj |
| forthcoming | f/3/ | gain | gn |
| fortification | : $:$ ' | gained |  |
| fortify | : | gallon | gln |
| forum | :um | galvanize | glvZ |
| forward | fW | gang | ga/ |
| found | fw\& | garden | grdn |
| foundation | $\mathrm{f} \& 8$ | garment | gr4 |
| fraction | F? | garnish | Gn9 |
| fragment | Fg4 | gash | g9 |
| France | F5 | gate | gt |
| franchise | Fnhz | gather | ghh |
| fraudulent | Fdl4 | gathering | ghh/ |
| free | Fe | gauge | gj |



| harmony | HXY | hit | hyt |
| :---: | :---: | :---: | :---: |
| hart | Ht | hitch | hih |
| has | , | hoarding | ho/ |
| hash | h9 | hoe | ho |
| haste | h ; | hold | dd |
| hasten | hsn | holding | dd/ |
| have | v | holiday | hlid |
| haze | nz | hollow | holo |
| he | p | home | hom |
| head | hd | homely | hmx |
| healing | hel/ | homestead | hm; ${ }^{\text {d }}$ |
| healthful | hltf | homeward | hmW |
| healthy | hlI | honest | on; |
| hear | H | honey | h6 |
| heard | Hd | honorable | 0 N 2 |
| hearsay | Hsa | hope | hp |
| heart | Ht | hopeful | hpf |
| hearty | HI | horrible | H2 |
| heating | het/ | horse | Hs |
| heavy | hvy | horsemanship | HsXp |
| hedge | hj | hospitable | h, t2 |
| heed | hed | hospital | h, \% |
| height | hit | hospitality | h, L |
| held | hld | hotel | ho\% |
| help | hlp | hour | $\Gamma$ |
| hence | he5 | house | hws |
| her | hr | householder | hsld |
| herald | Hld | housekeeping | hskp/ |
| here | H | how | hw |
| hereafter | HQ | however | hwV |
| hereditament | Hdt4 | humanity | hXI |
| hereditary | Hd. | humble | um2 |
| herein | Hi | humiliation | hmlis |
| hereinafter | HiQ | humor | hum |
| hereto | Hq | hundred | $\mathrm{H} \mathrm{\$ d}$ |
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| heritage | Htj | hunter | hu4r |
| hers | Hz | hunting | hu4/ |
| herself | HZf | hurled | hrld |
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| hesitation | hs' | husband |  |
| high | hi | hush | hu9 |
| highway | hiw | hydraulic | h\$1c |
| hill | hyl | hysterics | hs-X |
| him | X |  |  |
| himself | XZf | I |  |
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| hired | hio | identical | id4K |
| his | hs | identification | id4f8 |
| historical | hs-K | identify | id4: |

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| incur | ikr | influential | i'9 |
| incurable | iQ2 | inform | ifm |
| indebted | idE | informal | ifl |
| indebtedness | idEns | informality | ifL |
| indecision | id\$ | information | if' |
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| indefinite | idfnt | inhabit | ih |
| indelible | id12 | inheritance | iHA |
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| indemnity | idmI | inject | ij3 |
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| independent | idp\&4 | injure | iJ |
| indestructible | id\#32 | injury | iJy |
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| indicate | idk | inlaid | ild |
| indication | id' | innocence | ioA |
| indict | idi | innocent | ios4 |
| indicted | idid | innovation | io' |
| indictable | idi2 | innumerable | iuM2 |
| indifferent | id: 4 | inquest | iq; |
| indigestible | idj;2 | inquire | iQ |
| indignant | idgn4 | inquiry | iQy |
| indignation | idg' | inquisition | iqs8 |
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| indispensable | i2A2 | insect | is3 |
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| individual | iyyl | insertion | iR8 |
| individually | iyyx | inside | isid |
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| inducement | iU4 | insignificant | is:4 |
| induction | id? | insinuation | i8u8 |
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| infirm | i:m | institution | i\% |
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| instrument | i\#4 | inventory | ivv. |
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| insuffiency | isfff | inversion | iV8 |
| insufficient | isff | invest | iv; |
| insult | iuu | investigate | iv;g |
| insurable | iY2 | investment | iv;4 |
| insurance | iY5 | invisible | ivs2 |
| insure | iY | invite | iV |
| intelligence | i\%A | invoice | ivos |
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| intense | iA | involve | i? |
| intent | iT | irreconcilable | i\%sl2 |
| intention | i"8 | irregular | irgL |
| interact | ? 3 | irregularity | irgLI |
| interchangeable | ? $\times 2 \times 2$ | irresistibıe | ir" |
| intercourse | ? 4 s | irrespective | ir, 3v |
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| interlocutory | ? 1 c . | item | i" |
| intermediate | ?md | itemize | i"z |
| intermission | ? m 8 | items | i"s |
| intermittent | ? mT | itself | tZf |
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| international | ?'1 | J |  |
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| interrupt | ? ${ }^{\text {a }}$ | jeopardize | -7\% |
| intersect | ?s3 | job | jb |
| interstate | ?; | jobber | j. |
| interval | ?? | jobbing | jb/ |
| intervene | ? vn | join | jon |
| interview | ?vu | joint | Jit |
| intestacy | it; c | jointure | JY |
| intestate | it; t | journal | J1 |
| intimate | i\& | journey | J6 |
| into | iq | judge | .jj |
| intoxicated | itxkd | judgment | jj4 |
| intrigue | ? eg | judicial | j¢9 |
| introduce | ? ${ }^{\text {d }}$ | judiciary | jd9. |
| introduction | ? ${ }^{\text {? }}$ | judicious | jd9s |
| intrusion | ?8 | July | jli |
| inundation | iu' | junction | j/8 |
| invalidate | i? dt | June | Je |
| invaluable | i ? 42 | junior | jnY |
| invariably | iV2y | junk | 3/ |


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| justice | j;s | lashing | 19/ |
| justifiable | j; ${ }^{\text {2 }}$ 2 | last | 1; |
| justification | j;f8 | lasting | 1;/ |
| justify | j; : | lastly | 1; ${ }^{\text {l }}$ |
| justly | j; x | late | $1 \pm$ |
|  |  | lately | $1 t x$ |
| K |  | latent | 1 T |
| keen | ken | later | $1-$ |
| keep | kp | lather | lhh |
| keeper | к7 | latitude | 1 tU |
| key | ks | latter | 1 - |
| kick | kik | laudable | 1 d 2 |
| kill | ki | laugh | $1 f$ |
| killing | kil/ | laughing | 1f/ |
| kind | kis | laughter | 1f- |
| kindly | k\& x | law | 1 |
| king | k/ | lawful | $1($ |
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| knowingly | k/x | lazy | 1zy |
| knowledge | noo | lead (metal) | 1 d |
| known | kn | lead (verb) | led |
|  |  | leader | leD |
| L |  | leading | led/ |
| label | 12 | leaf | lef |
| labor | 1. | league | leag |
| laced | la; | leak | lek |
| lack | lc | leakage | 1kj |
| lad | ldd | lean | len |
| ladder | 1 D | leaned |  |
| lading | ld/ | leap | lep |
| laid | lad | learn | Ln |
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| ledger | $1 J$ |
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| legal | 1 gl |
| legality | 1 gL |
| legalize | 1 gZ |
| legatee | lge |
| legend | ljnd |
| legibility | 1 jL |
| legible | 1 j 2 |
| legislate | ljsl |
| legislation | ljs' |
| legislative | ljslT |
| legislator | 1jsl- |
| legislature | ljslY |
| legitimate |  |
| lend | Ind |
| length | 1// |
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| lengthwise | 1/Z |
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| let | 1 t |
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| liability | 1iL |
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| liberal | 1.1 |
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| liberation | $1 \%$ |
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| library | 15. |
| license | 1A |
| licensee | 1 Ae |
| lick | lyc |
| lie | li |
| life | lif |
| light | lit |


| lone | lon | making | )/ |
| :---: | :---: | :---: | :---: |
| lonely | $\ln x$ | male | ml |
| long | $1 /$ | malicious | m19s |
| longer | $1 / \mathrm{r}$ | malignant | mlgn 4 |
| longest | 1/; | malleable | mle2 |
| longing | 10// | malt | mlt |
| look | luk | man | X |
| looking-glass | 1k/gls | manage | Xj |
| loose (adj) | lus | management | Xj4 |
| loosen | 148 | manager | XJ |
| lord | 10 | mandatory | Xd. |
| lose (verb) | luz | manifest | Xf ; |
| loss | los | manifestation | Xf; 8 |
| lovable | 1 v 2 | manipulate |  |
| low | 10 | manner | mN |
| lower | 1W | manoeuvre | XuV |
| lowest | 1w; | mansion | X8 |
| lubrication | 15' | manslaughter | Xz- |
| luck | luc | manufactory | Xf3. |
| luggage | lgj | manufacture | Xf3r |
| luke | luk | manufacturer | Xf3rr |
| lumber | lum. | many | \$ |
| lunacy | lnac | mar | mr |
| lunatic | lntc | march | Mh |
| lunch | 1 nh | March | Mh |
| luncheon | ln8 | margin | Mjn |
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| luxury | 1 x . | marked | Mkt |
| lye | $1 i$ | market | MkT |
| lying | li/ | marketable | Mkt2 |
|  |  | marriage | Maj |
| M |  | marriageable | Mj2 |
| machine | m8 | marrow | Mo |
| made | 1 | marshal | M91 |
| magazine | mg8 | marvel | M? |
| magistrate | mj\#t | marvelous | M? ) |
| magnanimity | mggI | mason | msn |
| magnanimous | mgg ) | master | m\# |
| magnificence | mgga | masterpiece | m\#ps |
| magnificent | mggs 4 | mastication | m;' |
| magnify | mgg | match | mh |
| magnitude | mgnU | mate | mt |
| mail | ml | mated | mE |
| main (adj) | mn | material | m-1 |
| maintain | X" | mating | mt/ |
| maintainable | X"2 | matrimonial | m-X1 |
| maintenance | X"5 | matrimony | $\mathrm{m}-\mathrm{Xy}$ |
| major | mJ | matter | m- |
| majority | mJI | matting | mtt/ |
| make | ) | mature | may |


| maturity | mYI | mess | ms |
| :---: | :---: | :---: | :---: |
| maxim | mxm | message | 6j |
| maximum | mxmm | messenger | 6 nJ |
| may | m | met | mt |
| May | ma | meter | me- |
| mayor | myr | method | $\mathrm{m} / \mathrm{d}$ |
| maze | mz | metropolis | m-) s |
| me | m | metropolitan | $\mathrm{m}-)^{\prime \prime}$ |
| meagre | meG | microscope | mkrC |
| meal | mel | middle | midl |
| mean | men | midland |  |
| meaning | X/ | midsummer | mdsM |
| meanly | Xx | might | mit |
| measure | mY | mighty | miI |
| measurement | mY4 | migration | mG8 |
| measuring | mY/ | mile | mil |
| mechanic | m3c | mileage | mlj |
| mechanical | m3K | military | ml. |
| mechanics | m3x | militia | m19a |
| meddle | mdl | milk | mlk |
| mediation | mdi8 | mill | myl |
| Mediterranean | $m d-n n$ | million | mlY |
| medium | mdim | mind |  |
| meek | mek | mindful | mi\&( |
| meet | met | mine | min |
| meeting | met/ | mineral | mNl |
| mellow | mlo | mingle | m/1 |
| melon | mln | miniature | XiY |
| melt | mlt | minimum | mnmm |
| melting | $\mathrm{mlt} /$ | minor | miN |
| member | mm | minority | mNI |
| membership | mmp | mint | mi4 |
| memorable | mM2 | minute | Xut |
| memoranda | mma | minutely | Xutx |
| memorandum | mmm | misbehave | 6bhv |
| memory | mm . | miscalculation | 6Kq' |
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| mend | $\mathrm{m} \&$ | mischief | 6hf |
| mending | m\&/ | risconduct | 63d3 |
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| mercenary | M8. | miserable | 6 r 2 |
| merchandise | MhnZ | misinformed | 6i:d |
| merchant | Mh4 | mislaid | 6lad |
| merciful | Mcf | mislead | 6led |
| mere | mr | misled | Gld |
| merely | Mx | mismanagement | 6Xj4 |
| merge | Mj | misrepresent | 6 r 8 s 4 |
| merger | MJ | misrepresentation | $6 \mathrm{r} 88^{\prime}$ |
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| meritorious | M-) | mission | mi8 |

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| own | on | parts | 7 ts |
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| owner | $\bigcirc \mathrm{N}$ | party | 7 I |
| ownership | - Np | passable | pa" |
|  |  | passage | psj |
| P |  | passenger | p8J |
| pace | pas | passes | paS |
| pacific | pkk | passing | pass/ |
| pack | pc | passion | p8 |
| pacification | p:' | past | p; |
| package | pcj | paste | p; |
| packing | pc/ | pasture | psY |
| page | pj | patch | pah |
| paid | pd | patent | pT |
| pain | pn | patentable | pT2 |
| painful | pnf | paternal | p -nl |
| pair | pr | patient | p94 |
| palatable | plt2 | patrimony | $\mathrm{p}-\mathrm{Xy}$ |
| palatial | ) a 9 | patron | $\mathrm{p}-\mathrm{n}$ |
| pale | pl | patronize | $\mathrm{p}-\mathrm{Z}$ |
| pamphlet | pm't | pattern | ptrn |
| panel | Pl | pave | pv |
| panic | pnc | pavement | pv4 |
| panther | Phh | pay | pa |
| paper | p7 | payable | p2 |
| par | pr | paying | p/ |
| parable | 72 | payment | pm4 |
| paragraph | 7 F | peace | ps |
| parallel | 711 | peaceable | ps2 |
| paralyze | 7 Z | peaceful | psí |
| parcel | 7 sl | peach | ph |
| parchment | 7h4 | peal | pl |
| pardon | 7 dn | peculiar | pqq |
| pardonable | 7 dn 2 | peculiarity | pqqR |
| parentage | 74 j | pecuniary | pqn. |
| Paris | 7 S | peel | pl |
| parish | pr9 | peep | pp |
| park | 7 c | pen | pn |
| parliament | 714 | pencil | Psl |
| parsimony | 7 xXy | pending | p\&/ |
| parson | pr8 | penetrate | $\mathrm{P}-\mathrm{t}$ |
| part | 7 t | penitentiary | P"9. |
| partial | 791 | penniless | Pyls |
| partiality | 79L | penny | Py |
| participate | 78 | pension | P8 |
| participation | 7 tc ' | people | p) |
| particular | '7qq | per | pr |
| parting | $7 \mathrm{t} /$ | perceptible | 7 cp 2 |
| partition | 7 t8 | perception | 7 cp 8 |
| partner | 7 tN | peremptory | 7 m . |
| partnership | 7 tNp | perfect | 7 f 3 |


| perfection | 7 f ? | pike | pik |
| :---: | :---: | :---: | :---: |
| perforation | 7 f 8 | pile | pil |
| perform | 7 fm | pillage | )j |
| performance | 7 fm 5 | pillow | $) 0$ |
| perhaps | 7 aps | pinch | Ph |
| period | 7 id | pine | pin |
| periodical | 7 idK | pink | $\mathrm{p} / \mathrm{k}$ |
| perish | 79 | pitch | pih |
| perishable | 792 | pitiable | pti2 |
| perjury | 7 Jy | pitiful | ptif |
| permanence | $7 \times 5$ | pittance | pA |
| permanent | $7 \times 4$ | pity | pI |
| permeate | 7 met | place | Ps |
| permissible | 762 | placed | P : |
| permission | 7 m 8 | plague | Pg |
| permit | 7 mt | plaid | Pd |
| perpendicular | 7p\&qq | plain | Pan |
| perpetration | 7p\% | plainly | Pnx |
| perpetual | 7ptl | plaintiff | P4f |
| perpetuate | 7 ptt | plan | Pn |
| perpetuity | 7 ptI | plane | Pan |
| persecute | 7 cq | plant | P4 |
| persecution | $7 c^{\circ}$ | plantation | P48 |
| perseverance | $7 \mathrm{cV5}$ | planting | P4/ |
| persistence | 7SA | plaster | P\# |
| person | 7 sn | plate | Pt |
| personal | 7 snl | platform | Ptfm |
| personality | 78L | plating | Pt/ |
| personalty | 781 t | plausible | Pas2 |
| persons | 7 s 5 | playful | P( |
| persuade | 7swd | plea | Pe |
| pertain | $7{ }^{7}$ | plead | Ped |
| perusal | 7uZ | pleadings | $\mathrm{Pd} / \mathrm{s}$ |
| pester | p\# | pleasant | Ps4 |
| petition | pt8 | please | Pz |
| petitioner | pt 8 r | pleasing | $\mathrm{Pz} /$ |
| petrify | pt: | pleasure | PY |
| petty | pty | pledge | Pj |
| pharmacy | :me | plenty | P4y |
| phenomenon | fnXn | pliable | Pi2 |
| phonetic | intc | plight | Pi |
| phonograph | fnF | plum | Pm |
| phrase | Fs | plumb | Pm |
| phrases | Fss | plumber | PM |
| physician | fs8 | plumbing | Pm/ |
| pick | pyc | plume | Pme |
| picture | pcY | plump | Pmp |
| pie | pi | plunder | PnD |
| piece | ps | plunge | Pnj |
| piety | piI | plurality | PrL |


| point | po4 | precious | 89s |
| :---: | :---: | :---: | :---: |
| pointed | po4d | precipitate | 8 cptt |
| pointing | po4/ | precise | 8 cis |
| policy | ) c | preclude | 8 cld |
| polish | 19 | predecessor | 8dSr |
| politeness | )ins | predicament | 8 dk 4 |
| polite | )i | predicate | 8dk |
| political | )K | predict | 8 yy |
| politician | ) t8 | prediction | 8d? |
| ponderous | PD) | predispose | 82ps |
| poor | pur | predominate | 8dXt |
| popular | ppuL | preface | 8 fas |
| popularity | ppLI | prefer | 8: |
| population | pp' | preferable | 8:2 |
| port | prt | preferably | 8:2y |
| portable | 7 t 2 | preference | 8:5 |
| portend | 7"d | prefix | 8fx |
| porter | 7 - | prejudice | 8jds |
| portion | 78 | prejudicial | $8 \mathrm{jd9}$ |
| portray | 7-a | preliminary | 81X. |
| position | ps8 | premeditate | 8 mdt t |
| possess | pS | premeditation | 8md' |
| possession | p\$ | premises | 8mS |
| possibility | p"I | premium | 8 mm |
| possible | p" | preparation | 8\% |
| postage | p; ${ }^{\text {d }}$ | preparatory | 87. |
| post-office | p; fs | prepare | 87 |
| postpone | p; P | preparing | 87/ |
| postponement | p;P4 | prepay | 8pa |
| potential | p"9 | prepayment | 8p4 |
| pound | pW\& | preponderance | 8PD5 |
| poundage | p\&j | preposition | 8 eps 8 |
| pour | por | preposterous | 8p\#) |
| poured | p0 | prerogative | 8rgT |
| poverty | pVt | prescribe | 8 ccb |
| power | pW | prescription | 8 ccp 8 |
| powerful | pW( | presence | 8A |
| powerless | pWls | present (noun) | 8s4 |
| practicability | 83L | present (verb) | $8 \mathrm{z4}$ |
| practicable | 832 | presentation | 88' |
| practical | 83K | preservation | 8R' |
| practice | 83s | preserve | 8Rv |
| practitioner | 838r | preside | 8sd |
| praise | 82 | president | 8sd4 |
| preamble | 82 | press | 8 s |
| precaution | 8k8 | pressing | 8s/ |
| precautionary | 8 k 8. | pressure | 8 Y |
| precede | 8cd | prestige | 8; ${ }^{\text {j }}$ |
| precedent | 8 cd 4 | presumable | 8sm2 |
| preceding | 8cd/ | presumably | 8smB |


| presume | 8sm | prohibit | 8h |
| :---: | :---: | :---: | :---: |
| presumption | 8sm8 | prohibition | 8hb8 |
| pretend | $8^{\prime \prime}$ d | project | 8j3 |
| pretense | $8 \mathrm{t5}$ | projection | 8 j ? |
| pretension | 8 88 | prolong | 81/ |
| prevailing | 8?/ | prolongation | 81 n ' |
| prevalent | 8?4 | prominent | 8X4 |
| prevent | 8 vv | promise | 8 ms |
| prevention | 8vn8 | promises | 80 mS |
| previous | $8 \mathrm{v})$ | promissory | 8 ms . |
| price | 8 is | promote | 8mot |
| prices | 8 iS | promotion | 8m8 |
| primarily | $8 . x$ | prompt | 8mt |
| primary | 8. | promulgation | $8 \mathrm{ml}{ }^{\text {' }}$ |
| prime | 8 m | pronunciation | 8 n 58 |
| principal | 85) | proof | 8 f |
| principality | 85) I | prop | 8op |
| principally | 85 px | propagate | 8 pg |
| print | 84 | propel | 8) |
| prison | 88 | proper | 807 |
| privacy | 8 vc | properly | $87 \times$ |
| private | 8 V | property | 87 t |
| privation | 8i' | propitious | $8 \mathrm{p9s}$ |
| privilege | 8? ${ }^{\text {d }}$ | proponent | 8P4 |
| prize | 82 | proportion | 8078 |
| probability | 8bL | proportional | 8781 |
| probable | 8b2 | proportionate | 8781 |
| probate | $8-$ | proposal | 8 pZ |
| probation | $80^{\prime}$ | propose | 8pos |
| problem | 8 Bm | proposition | 8ps8 |
| procedure | 8 cJ | propound |  |
| proceed | 8ocd | prosecute | 8 cq |
| proceeding | 8ocd/ | prosecution | $8{ }^{\prime}$ |
| proceedings | $8 \mathrm{~cd} / \mathrm{s}$ | prospect | 8,3 |
| process | 805 | prospective | 8,3v |
| procession | $80 \$$ | prosper | 8 s 7 |
| procure | 8Q | prosperous | 8s7) |
| produce | 8 U | prostration | 8\#8 |
| product | 8d3 | protect | 8 t 3 |
| production | 80d? | protecting | 8t3/ |
| productive | 8od3v | protection | 8 t ? |
| profess | 8 fs | protest | 8 t ; |
| profession | 8 f 8 | protestation | 8t; 8 |
| professional | 8 frl | protrude | 8-d |
| profit | 8 ft | prove | 8 v |
| profitable | $8 \mathrm{ft2}$ | provide | 8 vd |
| programme | 80 M | providential | 8 vd 9 |
| progress | 8Gs | province | 8v5 |
| progression | 8G8 | provision | 8 v 8 |
| progressive | 8Gsv | provisional | 8v81 |

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provoke
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proximate
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## Q

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quizzing qz/
quorum
quota
quotation
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## R

| race | rs |
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| racing | rs/ |
| radiance | rdis |
| radiant | rdi4 |
| radiantly | rdi4x |
| radiation | rdi8 |
| radical | rdK |
| rail | rl |
| railroad | rlrd |
| railway | rlw |
| raise | rx |
| rally | ramification |
| ramify | rmf8 |
| ran | rm: |
| random | rn |
| rang | r\&m |
| range | r/ |
| rapid | rpd |
| rapidity | rpI |
| rare | rrely |
| rash | rrx |
| rate | r9 |
| rather | rt |
| ratification | rhh |
| ratify | rtf8 |
| ration | rt: |
| rational | ra8 |


| ray | ra | recurrence | \%5 |
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| reach | rh | redeem | rdm |
| react | re3 | redress | r \$ s |
| reaction | re? | reduce | r.U |
| read | rd | reduction | rd? |
| readily | rdx | reenforce | rnfs |
| readjust | rj; | refer | r: |
| ready | rdy | reference | r:5 |
| real | rel | reform | rfm |
| reality | rLI | refrain | $r \mathrm{Fn}$ |
| realization | ra\$ | refresh | rF9 |
| realize | raZ | refugee | rfje |
| really | rex | refund |  |
| realty | rLt | refusal | rfZ |
| reapportion | ra78 | refuse | rfz |
| rear | rer | regard | rgo |
| reason | r8 | regarding | rgo/ |
| reasonable | r82 | regardless | rgols |
| rebate | r- | register | rj\# |
| rebuild | r2d | regret | rGt |
| rebut | rB | regulate | rglt |
| rebuttal | rB1 | regulation | rg' |
| recall | rK | rehearing | $\mathrm{rH} /$ |
| recapitulate | rkp\& | reiteration | ri-8 |
| recapitulation | rkp\&8 | reject | rj3 |
| recede | red | rejected | rj3d |
| receipt | ret | re.joinder | rJD |
| receivable | rev2 | relation | $r{ }^{\prime}$ |
| receive | rcv | relative | rlT |
| receiver | rcV | release | rles |
| recent | rc4 | relevant | rlvv |
| recently | rc4x | reliable | rli2 |
| recession | r\$ | reliance | rli5 |
| recipient | rcp4 | relief | rlf |
| reciprocity | re8C | relieve | rlv |
| recital | rc\% | relish | r19 |
| recognize | \% Z | reluctant | r134 |
| recognition | \%n8 | rely | rli |
| recollect | rK3 | remain | rX |
| recollection | rK? | remark | rMk |
| recommend | \% \& | remedy | rmed |
| recommendation | $\%$ \% 8 | remember | rmm |
| reconcilable | \%sl2 | remit | rmt |
| reconsider | \% SD | remittance | rmA |
| record | $\% \mathrm{~d}$ | remote | rmot |
| recording | \%d/ | remove | ruv |
| recover | rkV | remuneratioi. | rXr8 |
| recreation | rkre8 | rename | rnm |
| rectify | rk: | render | rnd |
| recuperation | rq\% | rendition | r\&8 |


| renew | rnu | restraining | $\mathrm{r} \# \mathrm{n} /$ |
| :---: | :---: | :---: | :---: |
| renewal | rnL | restriction | r\#? |
| renounce | rn5 | result | ruu |
| renouncing | rn5/ | resume | rsm |
| rent | r4 | resumption | rsm8 |
| rented | r4d | retail | r\% |
| renunciation | rn58 | retain | $r$ tn |
| repair | r'7 | retaliate | $r \%$ t |
| reparation | r78 | retard | r-d |
| repay | rpa | retention | r"8 |
| repeal | r) | retire | rtir |
| repel | rpl | retirement | r-4 |
| repetition | rpt8 | retract | r-3 |
| replace | rPs | retreat | $\mathrm{r}-\mathrm{t}$ |
| replevy | $r \mathrm{Pv}$ | retribution | $\mathrm{r}-\mathrm{b} 8$ |
| reply | rP | return | $\mathrm{r}-\mathrm{n}$ |
| report | r7t | returnable | $\mathrm{r}-\mathrm{n} 2$ |
| represent | r8s4 | revelation | r?a8 |
| represented | r88E | revenge | rvnj |
| reprimand | r8m\& | revenue | rvnu |
| reproduce | r8U | reversal | rVZ |
| republic | rpblc | reverse | rVs |
| republican | rpbl3 | revert | rVt |
| repudiate | rpdt | review | rvu |
| repulse | r)s | revision | rv8 |
| reputable | rputa | revive | rvv |
| reputation | rpu' | revocable | rvk2 |
| request | rq; | revolution | r?u8 |
| require | rQ | revulsion | r?8 |
| requisite | rqst | reward | rW |
| requisition | rqs8 | rid | ryd |
| rescind | rsy\& | ride | rid |
| rescission | rc8 | ridicules | rdqls |
| resemble | rs2 | ridiculous | rdql) |
| reservation | rR' | right | rit |
| reside | rsd | rightfully | rify |
| residuary | rsd. | rightly | rix |
| residue | rsdu | ring | r/ |
| resign | rzn | rise | riz |
| resist | rs: | risk | rsk |
| resolution | r'Z8 | rivalry | $r$ ? |
| resort | rRt | rock | roc |
| resource | rRs | rocks | rox |
| respect | r,3 | roof | ruf |
| respond | r, \& | roomy | rmy |
| responsibility | r,5L | rope | rop |
| responsible | r,52 | rose | ros |
| restitution | r; t8 | rotation | ro' |
| restoration | r;r8 | rough | rgh |
| restore | $r$ ir | round |  |


| rout | rT | Scan | Cn |
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| +uu1mential | rd4l | scantling | C41/ |
| ruin | 1 di | scar | Cr |
| rule | rul | scarce | Crs |
| ruling | rul/ | scarcity | Cr C |
| rumor | rM | scare | Car |
| run | ru | scatter | C- |
| running | ru/ | scattering | C-/ |
| rush | ru9 | scene | cn |
| rushing | r9/ | scent | S4 |
| S |  | sceptical | CpK |
| rustle | ruZ | schedule | CU |
| rusty | r:y | scheme | Cm |
| rye | ri | scheming | Cm/ |
|  |  | science | si5 |
| sad | sd | scientific | sikk |
| sacrifice | skrfs | scope | Cop |
| safe | s | scornful | Crnf |
| sage | sj | Scotland |  |
| said | sed | scourge | Crj |
| sail | sal | scramble | com2 |
| sailing | sal/ | scraping | ccp/ |
| salary | Z. | scratch | cch |
| sale | sal | scrawl | ccl |
| salutation | Zu' | screen | con |
| salvage | Zvj | screw | ccu |
| salvation | Z' | scripture | ccpY |
| same | A | scrutinize | $c c c^{\prime \prime} z$ |
| sample | S) | scrutiny | $c c^{\prime \prime} y$ |
| sanctification | S/:' | sculptor | Clp- |
| sanctify | s/: | sea | c |
| sanction | s/8 | seal | cl |
| sanctity | S/I | sealing | cl/ |
| sand | S\& | seam | cm |
| sane | san | seamanship | cXp |
| sanguine | sngn | search | Rh |
| sanitary | sn . | seas | Cz |
| sanity | snI | season | c8 |
| sash | s9 | seasonable | c82 |
| satisfaction | ssf? | seat | ct |
| satisfactory | ssfk. | seaward | cW |
| satisfy | SS: | secession | c\$ |
| saturate | sYt | seclusive | cclsv |
| saturation | sY8 | secondary | sk\&. |
| Saturday | s-d | secret | ckrt |
| save | SV | secretary | skr. |
| saving | Sv/ | secretion | ckr8 |
| say | sa | section | s? |
| saying | sa/ | secure | cQ |
| says | ss | security | cQI |


| sedimert | sd 2 | set | st |
| :---: | :---: | :---: | :---: |
| sedition | cd8 | settle | stl |
| see | c | settlement | S\% 4 |
| seeding | cd/ | settling | s\%/ |
| seeds | cas | sever | SV |
| seek | ck | several | sV1 |
| seem | cm | severally | sVx |
| seen | cn | severe | SV |
| sees | Cz | severity | sVI |
| segment | sg4 | sew | So |
| seize | cz | sewing | so/ |
| seizes | css | shabby | 9by |
| seizure | cY | shade | 9d |
| seldom | Zdm | shadow | 9do |
| select | Z3 | shady | 9dy |
| selfish | Zf9 | shall | 9 |
| selfishness | Zf9ns | shallow | 910 |
| sell | Z | sham | 9m |
| selling | Z/ | shame | 9me |
| seller | SL | shameful | 9mf |
| seminary | SX. | shape | 9p |
| senator | sna- | share | 9 r |
| send | se\& | sharpen | 9 rpn |
| senior | cnY | shatter | 9- |
| sensation | s58 | shave | 9v |
| sense | s5 | shay | 9 a |
| sensibility | s5L | she | 9 e |
| sensible | s52 | sheet | 9et |
| sent | S4 | shell | 9 el |
| sentence | s45 | shingle | 9/1 |
| sentimental | S441 | ship | 9ip |
| sentimentality | s44L | shipment | 9p4 |
| sentimentally | s44x | shipping | 9p/ |
| separable | s72 | shivering | 9V/ |
| separate | s7t | shoe | 9 u |
| separation | s78 | shop | 9op |
| September | $s p^{\prime \prime}$. | shopping | 9op/ |
| sequel | cql | short | 9 rt |
| sequence | cq5 | shortening | $9 r^{\prime \prime} /$ |
| sequester | ca\# | shorthand | 9 rtH |
| sequestrate | cq\#t | should | 9ud |
| sequestration | ca\% | show | 90 |
| serial | R1 | shrill | 9 rl |
| series | Rz | shrinkage | $9 \mathrm{r} / \mathrm{j}$ |
| serious | R) | shudder | 9ud |
| servant | Rvv | shun | 9un |
| serve | Rv | shutter | 9u- |
| service | RI | shy | 91 |
| serviceable | RI2 | sick | sic |
| session | s8 | side | sid |


| siege | cj | smash | sm9 |
| :---: | :---: | :---: | :---: |
| sieve | siv | smell | sml |
| sigh | si | smelling | sml/ |
| sight | sit | smile | smil |
| sign | sin | smith | sm/ |
| signature | sgny | smuggle | smgl |
| signed | si\& | smuggling | smgl/ |
| significance | s:A | sneer | sner |
| signification | s: ${ }^{\text {c }}$ | sneeze | snz |
| signify | sgg | snobbish | snb9 |
| silence | Z5 | snow | sno |
| silent | Z4 | So | S |
| silver | ZV | soak | sok |
| similar | smL | sociability | s9L |
| similarity | smLI | sociable | s92 |
| simple | si) | social | so9 |
| simplicity | si) $C$ | socialism | s9sm |
| simplify | si) : | socialist | s9; |
| simply | smP | socialistic | s9; c |
| simulation | smu' | sojourn | SJ |
| sin | syn | sold | Zd |
| since | sy5 | solemn | Zm |
| sing | s/ | solemnize | ZmZ |
| singing | s// | solicitation | Z;8 |
| single | s/1 | solicitor | Z\# |
| sink | s/k | solidify | Zd: |
| sir | R | solidity | ZdI |
| sit | syt | solitaire | Zi- |
| sitting | syt/ | solitude | ZU |
| situation | s\% | solution | Z8 |
| size | Sz | solve | Zv |
| sizes | sss | solvency | ZAy |
| sketch | Ch | solvent | Zvv |
| skilful | Clf | some | J |
| slander | z\&r | somewhat | J: |
| slant | z4 | soon | sn |
| slash | z9 | sorrow | Ro |
| sleep | zep | sorry | Ry |
| sleeve | zev | sought | sau |
| slender | znD | sound |  |
| slight | zit | south | sth |
| slightly | ztx | sovereign | sVn |
| sling. | zy/ | Spain | , n |
| sloping | zop/ | span | , n |
| slow | zo | spar | ,r |
| sluggish | zg9 | spare | , ar |
| slumber | zm. | sparkle | , rK |
| smack | sme | speak | , k |
| small | smal | speaking | , k/ |
| smart | sMt | special | ,'9 |

specially

| ,9y | statutory | ; tt. |
| :---: | :---: | :---: |
| ,9t | stay | ; a |
| ,: | staying | ;a/ |
| , : | steadily | ; dx |
| , cX | steady | ; dy |
| , cqq | steal | ;el |
| , c\& | steam | ; em |
| , q' | steamship | ; m9p |
| , ql- | steel | ;el |
| , ed | stem | ; m |
| ,1/ | stencil | ; nZ |
| , nd | stenography | ; nFy |
| s : | sterilize | ; r Z |
| , yn/ | steward | ; W |
| ,ir | stiff | ;if |
| , ok | still | ;yl |
| , $\mathrm{n}^{\prime \prime}$ ) | stimulation | ; mu' |
| ww | sting | ; |
| wwa/ | stipulate | ; ) t |
| ww/ | stipulation | ; ${ }^{\prime}$ |
| ww/K | stitch | ; h |
| sq1 | stock | ; Oc |
| sQ | stockholder | ; clD |
| SQx | stoke | ; ok |
| sqz | stone | ; on |
| ; L | stony | ;06 |
| ;2 | stood | ; ud |
| ; | stop | ; op |
| ; ${ }^{\text {d, }}$ | stoppage | ; pj |
| ; ${ }^{\prime \prime}$ | storage | ; rj |
| ; K | storeroom | ; rrm |
| ; le | storm | ; rm |
| ; 1 | story | ; |
| ;mp | stowage | ; ${ }^{\text {w }}$ |
| ;ah | straight | \#t |
| ; \& | straightforward | \#tfw |
| ; \& 0 | strain | \#n |
| ; \& / | strange | \#nj |
| ;) | strategy | \#tj |
| ; r | stream | \#m |
| ; rh | street | \#t |
| ;rt | strengthen | \#//n |
| ; | stretch | \#h |
| ; E | strew | \#W |
| ; t/ | strewing | \#W/ |
| ; t4 | stricture | \#ikY |
| ; 8 | strike | \#ik |
| ;8. | striking | \#k/ |
| ; t ${ }^{\text {d }}$ | strip | \#yp |
| ; tt | stripped | \#ypt |

striving
stroll
strong
structural
strung
stubble
stubborn
student
stuff
stupidity
style
stylish
subdivide
subdue
subject
subjection
subjugate
sublet
submission
submit
subordination
subpoena
subscribe
subscription
subsequent
subsidiary
subsidize
substance
substitution
subtract
succeed
success
such
suction
sue
suffer
sufficient
suffrage
suggest
suit
suitable
sum
summary
summer
summons
sun
Sunday
sunny
sunrise
sunshine
\#v/
\#ol
\#0/
\#kYl
\#u/
; 42
; . n
; d4
;ur
; pI
;il
; 19
syy
sdu
sj3
sj?
sjg
sblt
sm8
sbmt
s0'
sPa
sccb
scep8
scq4
ss.
ssZ
s:5
sb\%
s-3
sked
skS
8
su?
su
su:
sff
sFj
sj;
sut
sut2
sm
sm.
sM
sXs
sn
snd
s6
snZ
sn8
superficial
\#f9
superintend \#4\&
superior \#Y
supersede \#cd
superstition \#\%
superstructure \#\#kY
supervision \#v8
supplant SP4
supplement sPm4
supply . SP
support
supposition
supreme
sure
surety
surpass
surprise
surround
survey
survival
suspect
suspend
suspicion
sustain
swallowing
sway
swell
sweep
sweet
swimmer
swindle
syllabic
syllable
symmetrical
sympathize
system
systematic
systematize
T

| table | t2 |
| :--- | :--- |
| tabulate |  |
| tack | tc |
| tactical | tck |
| tactician | t38 |
| take | tk |
| takes | tks |
| taken | taking |
| talk | tk/ |
|  | tlk |


| talking | t1k/ | tent | "t |
| :---: | :---: | :---: | :---: |
| tangible | "j2 | term | trm |
| tangle | t/l | terminate | -Xt |
| tape | tp | termination | -X8 |
| tar | trr | terminus | -X) |
| tardy | -dy | terms | trms |
| tarnish | -n9 | terrify | -: |
| task | tsk | territory | -. |
| taste | t;e | terror | -r |
| tasteful | $t ; f$ | test | t; |
| tasteless | t; 1 s | testament | t; 4 |
| tasting | t; / | testamentary | $t ; 4$. |
| taught | tau | testate | t; t |
| taunt | tas | testator | t; ${ }^{\text {- }}$ |
| tax | tx | testify | t;: |
| taxable | tx2 | testimonial | t; XI |
| taxation | tx8 | testimony | t; Xy |
| tea | te | text | tX |
| teach | th | textile | $\mathrm{tx} \%$ |
| teacher | tY | than | /an |
| teaching | th/ | thank | /k |
| teak | tk | thankful | /ki |
| team | tm | that | 5 |
| tear (noun) | tr | the | e |
| tear (verb) | tar | theatre | /a- |
| tease | tz | their | - |
| teeth | tth | them | \% |
| teething | tth/ | themselves | /mZs |
| telegram | \%M | then | /n |
| telegraph | $\% \mathrm{~F}$ | thence | /5 |
| telegraphic | $\% \mathrm{Fc}$ | theorize | /oZ |
| telephone | \%f $n$ | theory | 1. |
| tell | tl | there | - |
| temper | 17 | thereafter | -Q |
| temperament | "74 | thereby | -b |
| temperature | "7Y | therefore | -f |
| tempest | "p; | therefrom | -F |
| temporary | "7. | therein | -i |
| temptation | tm' | thereof | -0 |
| tempting | "t/ | thereon | - on |
| ten | tn | thereunder | -- |
| tenable | "2 | thereupon | - $\bar{K}$ |
| tenant | "4 | therewith | -W |
| tenantable | "42 | thermometer | -mm- |
| tend | "d | these | /Z |
| tendency | "dnc | they |  |
| tender | "D | thigh | /i |
| tending | "d/ | thin | /yn |
| tenement | "m4 | thing | // |
| tension | "8 | think | //k |


| thinking | //k/ | to-morrow to-night | qMo qni |
| :---: | :---: | :---: | :---: |
| thorough | /oro | tonnage | "j |
| thoroughfare | /oro: | tontine | "11 |
| thoroughly | /orx | too | q |
| those | ,oz | took | tuk |
| thou | /ou | torment | trm4 |
| though | 10 | torrent | tr 4 |
| thought | /au | torture | trY |
| thoughtlessness | /aull | total | ttl |
| threat | /rt | totally | ttx |
| threatening | /r"/ | touch | tuh |
| three | /re | touching | tuh/ |
| threw | /ru | tough | tuf |
| thriving | /rv/ | tourist | tr |
| through | /ru | towage | toj |
| throughout | /ruT | toward | tW |
| throw | /ro | towards | tws |
| thunder | 1- | town | twn |
| Thursday | -sd | trace | -s |
| thus | /us | traction | -? |
| ticket | tkt | trade | -d |
| tide | tid | traffic | -fc |
| tidings | td/s | train | -n |
| tidy | tdy | traitor | -- |
| tie | ti | transact | "3 |
| tied | tid | transaction | "? |
| tight | tit | transcribe | "ccb |
| tighten | ti" | transfer | ": |
| tiling | til/ | transform | "fm. |
| till | tyl | transient | "i4 |
| tillage | $\cdots$ | transition | "8 |
| timber | ". | translate | "lt |
| time | " | translation | "' |
| timely | "x | transmission | "m8 |
| timesaving | "sv/ | transparent | "74 |
| tinge | "j | transpire | -57 |
| tint | ti4 | transport | "7t |
| tip | typ | transportation | "7. |
| tissue | t9u | transverse | "Vs |
| title | t\% | travel | -v1 |
| to | q | tray | -a |
| tobacco | tbko | tread | -ed |
| to-day | qd | treason | -8 |
| together | tg- | treasonable | -82 |
| token | tokn | treasurer | -Yr |
| told | tld | treasury | -Yy |
| tolerable | tL2 | treat | -t |
| tolerably | tL2y | treatment | -t4 |
| toleration | tL8 | treble | -2 |


| tree | -e | unbalanced | u25t |
| :---: | :---: | :---: | :---: |
| trend | -nd | unbecoming | ub3/ |
| trespass | -, s | uncertain | UR" |
| trespasser | -, R | unchangeable | Uxx2 |
| triable | -12 | unchanged | uxxd |
| trial | -il | uncivilized | uc? ${ }^{\text {d }}$ |
| tribulation | -b' | uncollected | uK3d |
| tribute | -bt | uncommon | u3n |
| trick | -ic | unconcerned |  |
| trifling | -'/ | unconscionable | u382 |
| trip | -yp | unconscious | u39s |
| triplicate | -Pk | unconstitutional | u3\%1 |
| triumphant | -uff | unconstitutionality | u3\% L |
| trivial | -vil | uncover | ukV |
| trouble | -42 | undated | udE |
| trover | -V | undeniable | _ni2 |
| truck | -uc | under |  |
| true | -u | underestimate |  |
| trump | -up | underground |  |
| trunk | -/ | underhanded | _Hd |
| trust | tt | undermine | - X |
| trustee | tte | underneath | -n/ |
| trustworthy | ttWI | underrate | _rt |
| truth | -th | undersigned |  |
| truthful | -tf | undersized | _szd |
| try | -i | undersold | _Zd |
| Tuesday | qsd | understand |  |
| tuition | tu8 | undertake | -tk |
| tumult | tmlt | undertook | _tuk |
| tunnel | tnl | underwrite | _ri |
| turn | $\operatorname{trn}$ | underwriter | -r- |
| twice | tws | undesirable | R2 |
| twilight | twlt | undoing | udu/ |
| two | q | undoubted | - E |
| type | tip | undoubtedly | Ex |
| typewriter | t8- | undue | udu |
| typewriting | t8t/ | uneasy | uzy |
| typical | tpK | unemployed | umPd |
|  |  | unequal | ueql |
| U |  | uneven | uevn |
| ugly | ugx | unexpected | uxp3d |
| ultimate | L\& | unfair | u : |
| ultimatum | L\&m | unfaithful | uf/f |
| umpire | um7 | unfamiliar | ufmL |
| unable | U2 | unfasten | ufsn |
| unaccustomed | uk; md | unfavorable | ufV2 |
| unacquainted | ukw4d | unfilled | u (d |
| unarmed | urmd | unfit | uft |
| unauthorized | uaZd | unfold | u(d) |
| unaware | uaW | unforeseen | ufen |

unfortunate
unfound
unfounded
unfurnished
ungentlemanly
ungrateful
unhandy
unhealthy
uniform
uniformity
unincumbered
uninhabitable
uninjured
union
unit
universal
university
unjust
unkind
unknown
unlawful
unless
unlike
unlikely
unlimited
unload
unlucky
unmanageable
unmarried
unmistakable
unnecessary
unofficial
unpaid
unpleasant
unpopular
unprecedented
unprincipled
unprofitable
unreasonable
unrivaled
unsafe
unsaid
unsealed
unseat
unsightly
unsold
unsound
unsuited
unsurpassed
until
uf\&
ufwe
ufw\&d
u: n9t
uj41Xx
uGtf
uHy
uhlI
uifm
ui:I
ui3b0
uin_2
uiJd
un
ut
uiVZ
uivc
uj;
uk\&
ukn
ulf
uls
ulk
ulkx
ulme
ulod
ulcy
uXj2
uMid
u6tk2
uns.
uof9
upd
uPs4
uppL
u8cd4d
u85) d
u8ft2
ur82
uri?d
usf
usd
ucld
uct
ustx
uZd
uso
usue
uRp;
u\%
untilled
untimely
untold
untrue
unwilling
unwise
unworthy
up
upheld
uphold
upon
upper
upright
uprising
upward
urge
urgent
us
usable
use (noun)
use (verb)
used
useful
useless
usual
usurious
usury
utility
utilize
utmost
utter
utterly
vacancy
vacant
vacation
vague
valid
validity
valuable
valuation
value
vanish
variance
variation
variety
various
vary
veal
u\%d
u"x
utld
u-u
uwl/
uZ
uWI
U
Uld
Udd
K
Ur
Uri
UZ /
UW
urj
Rj4
S
us2
us
z
zd
us(
usls
49
uY)
uYy
u\%I
u\%z
Tm;
u-
$\mathrm{u}-\mathrm{x}$
V
v3c
vk4
v'
vg
?id
?dI
? 42
? 48
?u
vn9
Vi5
Vi8
ViI
V)

Vy
v1


zeal
zealous
zenith
zero
zl
zl)
$\mathrm{zn} /$
zro
zigzag
zgz
zinc
z/
zone $z n$
zoo zu
zoology zoo

The short forms shown in this chapter contain only the characters that are on practically every keyboard, being designed for use when the work is done on a small keyboard, such as Keyboard A.

When a word is frased on a small board, the frasing often further reduces the form. When written on a larger board, such as B, C or D, page 87, the additional characters which those boards contain, in many cases permit a reduction in a word standing alone. In a further class of cases, when writing on a larger board, both the board and a frasing principle operate jointly on the same short form to produce a double reduction.

These additional contractions are treated in the following chapters.

## FRASING

The term "frasing," as here used, means either the representation of a frase by a single character, or by joining two or more characters with no intervening space.

The following frases are shown by the single characters placed opposite thereto:

| that the " |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| by the | \# | under the <br> and the | from the <br> of a | with the <br> of an <br> of the |
| $\%$ | at the | for the | in the |  |

Generally these characters should stand alone when indicating their frase meaning:
the records of the corporation e \%ds \% 4\% Here the character $\%$ is seen in three positions, initial, alone, and final, each carrying a different meaning. But in work where "the records of the corporation" occurs with any frequency, it can be written as a unit, thus: e\%ds\%4\%

The basic principle upon which frasing rests is that a frase is regarded as a unit between the words of which, in many cases, spaces are not needed, and the contractions for frases which are shown by more than one character are accomplished by the following methods:

1 Initial Letter Frasing is using the first letter of each word. executor or administrator eoa

2 Word-Sign Frasing is using the word-signs for the individual words. on which nh

3 Capital Letter Frasing shows each of the principal words by a single capital letter.

Collector of the Port
Chief of the General Staff
Chancellor of the Exchequer
Supreme Court of the United States
Chief Judge of the Court of Appeals
the opinion of the Chief Judge of the Court of Appeals

C\% P
C \%GS
C\%X
SC\%US
CJ\%CA
eoPY \%CJ\%CA

4 Compound Frasing combines any two or more of the preceding methods. in order to ioq In this group it is sometimes an advantage to show the more important sounds, thereby placing less burden on the memory. in restrain of trade ir\#40-d

Each frase, then, gravitates to one of these four groups, and the application of the principles of the four methods to any frase will show to which group it belongs. The main point is that when the short form derived under either method conflicts with any word or frase of greater importance, that method will not answer. For instance, "after the" if contracted by the first method produces "at"; under the second, "Qe." To promote rapidity in reading, Qe is adopted.

It is thus seen that frasing is not only a means of reducing the number of touches, but also of distinguishing between the several meanings of the same character:
and overestimated the time $d$ '\&d e"
he said that the necessary information
would be given at the proper time
p sed " nSif" \#bg ' 8o7"
In frasing, a word is not necessarily written the same as when it stands alone, but it may often be reduced, as is the case with "necessary" in the last frase shown.

Where a capital letter is a word-sign for more than one word, the handling of such capitals in frases may be illustrated by K. When necessary to prevent conflict, it stands alone for "upon," and is frased for "call":
they will, upon information being furnished
they will call, information being furnished
\&l, K if' b/ :n9t
\& 1 K , if' $\mathrm{b} / \mathrm{:n9t}$

Where there is no danger of conflict, there is no necessity for spacing:
has been there
construction of the $3 \# \%$

The names of individuals, business houses and corporations are written as a unit, except when necessary to distinguish them from a slightly different name. In these frases, "company" is shown by $k$

| trust company | ttk |
| :--- | :--- |
| insurance company | iY5k |
| J.S. Anderson | js\&r8 |
| J. Sanderson | j s\&r8 |
| J. J. Barrington | jJ./" |
| Judge Barrington | jj./" |
| Smith \& Company | Sm/dk |
| George Jones \& Company | $\mathrm{Jjj5dk}$ |
| Pennsylvania Railroad Company | prrk |

## CHAPTER 11

## FRASES

This list is designed to illustrate the principles stated in the previous chapter, and after seeing their application, one can readily assign a short form for any frase.

## A

a few
a few more
a great many
a number of
a young man
able to
able to make
afu
about that time
about which
absolutely necessary afum
agm
ano
ay/X
according to the
an
according to your
acknowledging your
acknowledging your favor 2q
2q)
AT5"
ATh
an
acknowledging your order kYO
acknowledging your order of the 27th
acknowledging your order of the 10th instant
acknowledging your telegram
acknowledging your wire
kY027
after that time
after the
after the time
am a )
am an)
2a
am able 22
am able to 22q
am able to be 22qb
am able to be there 22qb-
am unable $2 u 2$
am unable to 2u2q
am unable to be 2u2qb
am unable to be there 2u2qb-

| amounted to | aoEq |
| :---: | :---: |
| and a ) |  |
| and an) | da |
| and any | d6 |
| and Company | dk |
| and that | d5 |
| and the |  |
| and this | d/ |
| another one | a4y |
| answering your communication | 5 Y38 |
| answering yours of the 26 th | 5/Ys26 |
| any other | 64 |
| any other one | $64 y$ |
| are not | rj |
| as far as | x : x |
| as follows | $x$ ( 5 |
| as it is | xts |
| as long as | $\mathrm{xl} / \mathrm{x}$ |
| as much as | x7x |
| as per his | x7hs |
| as per their | x7- |
| as per your | x7Y |
| as per your order | x'Y 0 |
| as per your telegram | x7Y\%\% |
| as per your wire | x7YW |
| as soon as | xsx |
| as soon as you can | xsxu3 |
| as the | xe |
| as well as | xwlx |
| at all | TL |
| at all times | TL"s |
| at any rate | T6rt |
| at first | T: |
| at home | Thom |
| at last | Tl; |
| at least | Tle; |
| at length | Tl// |
| at most | Tm; |
| at once | Ty5 |
| at one time | Ty" |
| at present | T8s4 |

at some time
at that time
at the
at the last minute
at the present time
at the present moment
at the same time
at their request
at your
at your convenience
awaiting his
awaiting their
awaiting their instructions
awaiting your
awaiting your advice
awaiting your instructions
awaiting your order
better prices
better than
bill of lading
bill of sale
bond and mortgage
British Empire
brother-in-law
by a )
by an)
by any
by any other
by any other means
by reason of
by return mail
by that
by that means
by the
by their
by this
by this mail

TJ"
T5"
,
'1;Xut
'p"
'pm
'A"
T-qq
TY
TY35
a/hs
a/-
a/-i\#s
a/Y
$\mathrm{a} / \mathrm{YI}$
a/Yi\#s
a/YO
b-8S
b-t
21/
bos
bam
5t9m7
5hhil
bc.
b6
b64
b64Xs
bro
brml
b5
b5Xs
\#
b-
$\mathrm{b} / \mathrm{s}$
b/ml

| can a ) |  |
| :--- | :--- |
| can an) | 3 a |
| can be | 3 b |
| cannot be | 3 jb |
| cannot be done | 3 jbdn |
| cannot be made | 3 jb |
| capital stock | $\mathrm{ck} ; \mathrm{c}$ |
| careful consideration | $4 \mathrm{~F} / \mathrm{c}$ |
| certified check | cc |
| Chancellor of the Exchequer | $\mathrm{C} / \mathrm{X}$ |
| Chief Judge of the Court of Appeals | $\mathrm{CJ} / r \mathrm{CA}$ |
| Chief of the General Staff | $\mathrm{C} / \mathrm{GS}$ |
| Civil Engineer | $\mathrm{c} ? \mathrm{njN}$ |
| clerical error | 11 KRr |
| collateral security | $\mathrm{K}-1 Q I$ |
| Collector of the Port | $\mathrm{C} / \mathrm{P}$ |
| comes from | 3 sF |
| common sense | $3 n s 5$ |
| common stock | $3 n ; c$ |
| construction of the | $3 \# \%$ |
| Court not of Record | cnor |
| Court of Equity | coe |
| Court of Record | cor |

D
Dear Madam Dm
Dear Sir DR
did not Dj
did not accomplish Dj\&l9
did not expect Djxp3
did not receive
Djrcv
do I understand
do I understand that they will
dui $\qquad$
do you
do you recommend
does not
dui__5\&l
duu
duu \% \&
dsj

## E

each and every
each and every one
each one

EdeVy
EdeVyy
Ey

```
Eastern States
entitled to receive
entitled to recover
every part
every particular
executive committee
executor or administrator
express charges
```

e\#n;s
nt\%qrev
nt\%qrkV
eVy7t
eVy7qq
xqT3I
eoa
x8sHjs

## F

favorable conditions
first mortgage
for a )
for an)
for another
for another one
for any
for anyone
for any kind
for any other
for any purpose
for example
for if
fV23d8s
: ;Mgj
fa
fa4
fa4y
f6
f6y
f6k\&
f64
for instance
for its
f67ps
for that
fx)
for that purpose
for the
for the purpose of
for there is
for these
ror these reasons
from day to day
from the
from time to time
from week to week
from year to year
give a )
give an)
give instructions

[^0]give their
giving the
giving their
glad to hear
glad to know
glad to see
good weather
Great Britain
great deal
greater than
H
had been
has been
has been there
has been under
have been
have been received
have been shipped
have you
have you a )
have you an)
have you another
have you another one
have you any
have you any of the ..
have you some
have you some of the
having been
having occasion
he had
he has
he has not
he has not been
highest bidder

I am i2
I may
im
if a)
if an)
Ia
if another Ia4

| if any | 16 |
| :---: | :---: |
| if anybody | I6by |
| if anybody else | I6byLs |
| if anyone | I6y |
| if anyone of the | I6y\% |
| if he | Ip |
| if it will | Itl |
| if it will be | Itlb |
| if the | Ie |
| if there | I- |
| if there are | I-r |
| if there are not | I-rj |
| if there is | I-s |
| if you | Iu |
| if you are | Iur |
| if you are in touch | Iurith |
| if you are interested | Iur?; ${ }^{\text {d }}$ |
| immediate attention | id"8 |
| imported from France | ) EFF5 |
| in ${ }^{\text {in }}$ an) | ia |
| in accordance with | ik05w |
| in any | i6 |
| in connection with | i3w |
| in consideration of | i30 |
| in consideration of the | i3\% |
| in every case | ieVks |
| in fact | if3 |
| in favor of | ifVo |
| in like manner | ilkmN |
| in my | i m |
| in order to | ioq |
| in reference to | ir:5q |
| in regard to | irgq |
| in regard to the | irg? |
| in respect to the | ir, 3 ? |
| in restraint of trade | ir\#40-d |
| in the | - |
| in the first place | . ; P |
| in the manner | . mN |
| in the meantime | . $\mathrm{XI}^{\prime \prime}$ |


| in the same | . A |
| :---: | :---: |
| in the same manner | AmN |
| in the same way | Aw |
| in their possession | i-p\$ |
| in trust | itt |
| Interstate Commerce Commission | ?;338 |
| into a ) into an) | iqa |
| into the | i? |
| is a ) |  |
| is an) | sa |
| is another | sa4 |
| is not | sj |
| is not a ) |  |
| is not an) | sja |
| is one of the | sy \% |
| is or is not | sRsj |
| is the | se |
| it cannot | t3j |
| it cannot be | t3jb |
| it is | ts |
| it is a ) |  |
| it is an) | tsa |
| it is necessary | tsnS |
| it is necessary for | tsnSf |
| it is necessary for him | tsnSfX |
| it is necessary for his | tsnSfhs |
| it is necessary for his own protection | tsnSfhsn8t? |
| it is necessary for me | tsnSfm |
| it is necessary for my | tsnSfm |
| it is necessary for my own | tsnSfmn |
| it is necessary for our | tsnSfr |
| it is necessary for our own | tsnSfrn |
| it is necessary for that | tsnSf5 |
| it is necessary for you to be there | tsnSfuqb- |
| it is not | tsj |
| it is not a ) |  |
| it is not an) | tsja |
| it is not necessary | tsjnS |
| it is safe to say | tssfqs |
| it is understood | ts__d |

it is understood that
ts__d5
it might
it might be
it might have been
it was not
it was not a
tmt
tmtb
tmtv?
tzj
tzja
it would
it would be
t\#
t\#b
J
jet black
$j t B c$
jobbing house
joint stock company
judgment for the plaintiff
judgment reversed
just as good as
just as long as
just as soon as
just as soon as possible
just as well as
just as well as not
just heard
jb/hs
j4;ck
jj4(P4f
jj4rV;
j;xgdx
j;xl/x
$j ; x s x$
j;xsxp"
j;xwlx
j; XW1xj
j;Hd
K
kindly inform us
know there is
know there is no
know they are
knowing the
knowing their
knowledge of the
knowledge of the fact
knowledge of the fact that
knowledge of the fact that you are
known to be
knows there is
k\&xifms
k-s
k-sk
$k \& r$
k/e
k/-
$00 \%$
$00 \%$ f3
$00 \%$ f 35
$00 \%$ f35ur
knqb
ks-s

L


| last year | $1 ; Y$ |
| :---: | :---: |
| latest and best | lt ; db; |
| latter part of | lpo |
| leave it to us | lvtqs |
| leave there | 1 v - |
| legal tender | lgI"D |
| less than | 1 s n |
| liberty of the press | 1.I'8s |
| lower than | IWt |

many more ..... $\$ \mathrm{M}$
many other ..... $\$ 4$
may a )
may an) ma
may another ma4
may be
mb
may be a )
may be an) mba
may be any mb6
may be anyone
may be that
may be that that
may have been
may have been there
may see
mechanic's lien
more or less
more than
must be
must be given
must be there
must begin
N
national bank
negotiable instrument
new styles
no less than
no more than
not all
not greater than
n81b/
ni
nu;ils
klt
kMt
jL
jG-t

```
not less than
jlt
not more than jMt
not only
not the
```


## jM

```
not only
jnx
not the
je
```

0
of a )
of an )
of another
\$
of any
of any other
of any other kind
of any other one
of anybody
of anybody else
of anyone
of anyone else
of course
of our
0,4
06
064
064k\&
064y
o6by
06byLs
06y
06yLs
of the
of their
of $f$ and on
on a )
on an)
na
on account nk4
on account of
on account of the
on or about
on or before
on the
on the contrary
on the one hand
on the other hand
on time
on which
once a week
once or twice
one half
one of a )
one of an)
y\$
one of the
$\mathrm{y} \%$
one of the most
one thousand
y/\&
other than
outstanding indebtedness
owing to the

O-t
oi
$0 /$ ?

P
Pacific Coast
per cent per annum
personal opinion
personal propery
please advise
please advise us
please call our attention
please wire us
proceeds of the sale
promissory note
prompt acceptance
prompt remittance
public opinion
public policy
public property

Q
question of fact
question of law
quick returns
quick selling
quitclaim deed
quite as well
quite likely
quite probable
quite sure there is
quoted below
quoted by us
quoted for prompt acceptance
qof
qol
qcr-5
qcZ/
qt\#D
qixwl
qilkx
qi8b2
qiY-s
qoEZo
qoEbs
qoEf8mk

## R

[^1]| receiver's sale | rcVZ |
| :--- | :--- |
| referring to the | $\mathrm{r}: / ?$ |
| referring to your | $\mathrm{r}: / \mathrm{qY}$ |
| referring to your order | $\mathrm{r}: / \mathrm{qYO}$ |
| relative to the | $\mathrm{rlT} ?$ |
| replying to the | $\mathrm{rP} / ?$ |
| replying to your | $\mathrm{rP} / \mathrm{qY}$ |
| respectfully yours | xY |
| right of action | roa |
| right, title and interest | rt\%d?st |
| Roman Empire | $r X m 7$ |

## S

Saturday afternoon
seem to
seem to be
seem to be a)
seem to be an)
Sermont on the Mount
shall be
shall not
six per cent per annum
small amount
so as
so as not
so as to
so that
so the
cmqba
RXnem4
9b
9j
6\%7a
smlao4
Sx
Sxj
Sxq
S5
some of the
special price
statute of limitations
Se
J \%
such information
sum of money
,98s
sol
8if'

Supreme Court of the United States
soX
SC\%US

## $T$

ten thousand dollars
ten thousand people
"/\$
thanking you
"/p)
thanking you for the
thanking you for the order ..... //ul0
that a )
that an) ..... 5a
that gives 5gs
that gives me5gsm
that if5 I
that if a)that if an)5Ia
that if I ..... 5Ii
that if that ..... 5 I5
that if they ..... 5I\&
that that ..... 55
that the ..... "
that the record ..... " \%d
that the time ..... " "
that there)that their)5-
that there are ..... 5-r
that there are not ..... 5-rj
that there is ..... 5-s
that there is not ..... 5-sjthat there wasthat there was not
that there may be ..... 5-mb
that there shall be ..... $5-9 b$
that this ..... $5 /$5-z
that you ..... $5 u$5-zjthat you are not
that you are ..... 5urthe first timethe last time
5urje:;"
the other ..... e4el;"
the receipt of which erctoh
there is-s
there is not ..... -sj
there were ..... -W
there were other ..... -W4
there will ..... -1
there will be ..... $-1 b$
there will not be ..... $-1 j b$
time of the day " \% d
time record"\%d

| to a ) <br> to an) | qa |
| :---: | :---: |
| to be | qb |
| to be able | qb2 |
| to be able to | qb2q |
| to be given | qbg |
| to beg | q bg |
| to begin | gbgn |
| to do | qdu |
| to do so | qdS |
| to take effect | qtkf3 |
| to the | ? |
| to their | q- |
| to wit | qwt |
| to-morrow afternoon | qMQnn |
| to-morrow evening | qMe/ |
| to-morrow morning | qMM/ |
| trade mark | -dMK |
| trust it | ttt |
| trusting this | tt// |
| trusting this will | tt//1 |
| trusting to hear | $\mathrm{tt} / \mathrm{qH}$ |
| trusting to hear from you | $\mathrm{tt} / \mathrm{qHFu}$ |
| trusting to hear from you further | tt/qHFu: - |
| two months | qXts |
| two or three | 2 r 3 |
| two thousand |  |

under a )
under an)
under separate cover
under the
under the circumstances
under the impression
understand that
understand that it is
understand that it is not
understand that you
understand that you are
understand that you will
understand that you will not
unless there is

U
uec
-a
usc
-
Lec
uei
$-5$
_5ts

- 5 tsj _5u .5ur 5ul
_5ulj
uls-s
validity of the contract ?I'; \$3
value of the property ?u/py
various reasons
very briefly
very greatly
very much
Very respectfully
Very truly
Vory truly yours
Vice admiral
Vice president

W

| was a ) |  |
| :--- | :--- |
| was an) | za |
| was not | zj |
| was not a ) |  |
| was not an) | zja |
| we are | wr |
| we are in receipt of | wriro |
| we are not | wrj |
| we are not able | wrj2 |
| we are not able to make | wrj2q) |
| we can | w3 |
| we cannot | w3j |
| we do | wdu |
| we do not | wduj |
| we do not have | wdujv |
| we give | wg. |
| we give you | wgu |
| we have | wv |
| we have in stock | wvi;c |
| we have not | wvj |
| we have not heard | wvjHd |
| we will ship them to-morrow | wl9p\%qMo |
| we wish you would | ww9u\# |
| when a |  |
| when an) | wna |
| when he | wnp |
| when he once | wnpy5 |

when he wants
when the
when wanted
where there are
where there are not
where there is
whether or not
will be
will be able to give you
with a )
with an)
with or without
with reference to the
with regard to the
with respect to the
with the
would be
would have
would have to
would not
would not be
would not do
would not have
would not have to
would not take
would say
wnpw4s
wne
wnw4d
W-r
W-rj
W-s
whhrj
1b
lb2qgu
wa
wow
wr: 5?
wrg?
wr,?
:
\#b
\#v
\#vq
\#j
\#jb
\#jdu
\#jv
\#jvq
\#jtk
\#sa

## Y

yesterday afternoon
you are well aware
your favor
your order
your order for
your order of the
your order of the 19th inst.
Yours cordially
Yours respectfully
Yours sincerely
Yours truly
Yours very truly
y\#Qnn
urwlaW
YV
YO
YOf
YO\%
Y0\%19i
Y4x
Y, X
YRx
Y-
YV-
zero weather
zrwhh
zinc methyl
zoological garden
z/m/l
zooKGdn

KEYBOARD C (Non-Shift-key)


KEYBOARD C (Shift-key)

# (2) (3) (3) (3) (2) (3) (3) (2) (ㄱ) (1) () 





Keyboard Using Two Shift-keys, each of which accomplishes a different purpose


FiG $\begin{aligned} & Q \\ & A\end{aligned} \begin{aligned} & \$ \\ & S\end{aligned} \begin{aligned} & \% \\ & D\end{aligned} \hat{F}$ ( $\begin{aligned} & * \\ & G\end{aligned} \begin{aligned} & = \\ & J\end{aligned} \begin{aligned} & C \\ & K\end{aligned} \begin{aligned} & \# \\ & L\end{aligned}$


## CHAPTER 12

## THE LARGER KEYBOARDS

Thus far no use has been made of the additional keys with which some typewriters are equipped. Columns B, C and D below, show the extra characters on three representative boards, so that one using either of these boards has the additional advantage of the following assignments, together with the benefits of the vowel changes under the rules stated in Chapter Three.

| PREFIXES | KEYBOARD |  |  |  |  | SIGN- <br> WORDS | $\begin{aligned} & \text { SIGN- } \\ & \text { FRASES } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | B | C | D |  | SUFFIXES |  |  |
| gla irri eru | * | 1/8 | * | gla | gal ald | ever | by a |
| dam dan infor infer | 1/4 | 1/4 | $+$ | dam | dan ness | these | as the |
| cla uncom uncon | 1/2 | 1/2 | § | $\begin{aligned} & \text { less } \\ & \text { ral } \end{aligned}$ | mal nal | by | to a |
| at ate repra | (T) | (II) | (a) | $\begin{aligned} & \text { date } \\ & \text { rate } \end{aligned}$ | e mate nate <br> e sate wait | at | as a |
| cra discom discon | ¢ | 7/8 | $\phi$ | bent gent cent | $t$ dent fent <br> $t$ rent sent <br> t vent zent | than | on the |

van unfor unfur $3 / 43 / 4 \quad £ \quad$ van
fect ject lect nect rect tect
dal circum
dif prepar
pub equal suppla $=$ ism cism nism
those within the
do about the
new into the every upon the

The arrangement of the syllabic characters in the above list, indicates how the characters should be interchanged for each other on the various keyboards, since only one of these additional characters (@) is common to all three of the larger boards shown.

The manner in which these keyboards further reduce the touches is shown by the following words illustrating the use of Keyboard C:

| Standard | Keyboard A | Form Keyboard C |
| :---: | :---: | :---: |
| glad | gld | 1/8d |
| irrigation | ir' | 1/8' |
| damage | dmj | $1 / 4 \mathrm{j}$ |
| informal | ifl | 1/41/2 |
| gladness | gldns | $1 / 8 \mathrm{~d} 1 / 4$ |
| unconstitutionality | u3\% L | $1 / 2 \% \mathrm{~L}$ |
| attained | at\& |  |
| candidate | 3ddt | 3d |
| represent | r8s4 | (a) 7 |
| disconnect | 233 | $7 / 8$ |
| unfortunate | uf \& |  |
| reject | rj3 | r3/4 |
| vanish | vn9 | $3 / 49$ |
| circumstance | R3;5 | 3/8;5 |
| deliver | dlV | $3 / 8 \mathrm{~V}$ |
| preparatory | 87. | $5 / 8$. |
| difficult | dfKt | 5/8Kt |
| necessary information | nSif' | nS1/4 ${ }^{\text { }}$ |

## ILLUSTRATIVE WORK

There are numerous degrees of intensity with which the contracting principles can be used, and the intensity of development is a matter of personal choice to be exercised by the operator. Where one is taking dictation, or writing material, which is to be read only by the person who writes it, one's latitude in intense frasing is wider than where the shorttyping is to be read by others.

The shorttyped material below shows three styles as they would be written on Keyboard A. Three spaces after a word indicates a period; a semicolon is shown by two spaces; the comma and colon, by their regular punctuation marks.

Corresponding Style
7 F F of9 $4, \& 5$
$r: / ? ~ d 7 t 4 s$ le- $27231 \% 3 i$, e c? njN r,3fy r7ts" d7t4s i\#s 3"d -i v? 3Pd w e r7t r:d q s fWd _s7t kV bi /ml, tghh : P5 d, :'s (vd \# cnY njN ofR, d smE \# njN i Hj o 3\# Wk, _dt o Mh 16, 1912, ? hef \% . u o ;m njN/

The same. Intermediate Style
$r: / ? d 7 t 4 s l-27231 \% 3 i, e c ? n j N r, r 7 t s$ " d7t4si\#s 3"d-i v?PW er'7tr:dq sfWd_s7tkV b/ml, tg-: P5d,:'s (vd\# cnYnjNofR, d smE \# njNiHjo3\#Wk, _dto Mhl6, 1912, ? hf \%.o;mnjN/

## The same Reporting Style

r/? dsl- 27231 \%3i, ece rr" dsi\#s 3-i v?Pdw err:dq sfWd usc b/ml, t-: pds abe seo, dsmE\# eicocw, udo Mhl6, 1912, ? C\%BSE

## KEY

Paragraph from Official Correspondence
Referring to the Department's letter 27,231 of the third instant, the Civil Engineer respectfully reports that the Department's instructions contained therein have been complied with. The report referred to is forwarded under separate cover by this mail, together with the plans and specifications approved by the Senior Engineer Officer, and submitted by the Engineer in Charge of Construction Work, under date of March l6th, 1912, to the Chief of the Bureau of Steam Engineering.

The following illustrates the manner in which a letter would appear in the syllabic code, when written from dictation for the purpose of being transcribed into formal style. Here punctuation marks are not needed for punctuation except where absolutely necessary to show the meaning; they can be inserted when transcribing.

If when writing, the operator is pressed for time as the result of exceptionally rapid dictation, the paragraphing can also be omitted, as is done in the following work; and the paragraphs can be arranged when transcribing.

## Intermediate Style

mR ly8dJ8 9kg a"80 MJj5d DRs wriro YV27i dirP bgqs5 wnt ei\#s $x$ ? mN o pc/egds r:/qY rMk 5u "v? 'Hjd" \#sa
 MW//" wgvua,98s hz 3sD2y lWt rli; w3j__hw a)- 3 wsfI __8s43d8s )lW8S /an rs d waYu5 wrLwsrdy q) 8iS xlox 6 qbP f gds o eqlqL $y \% k S h u$ Or wntfW y\#d a4 gos qd d wxp3q9p erXD w." Kdf\#\$3--awr"ds eb;qL (e \#l0) lbpt i : nX9p4 e\#l2 s. ks go/ qd irgq $2 k 4$ frmA brml i3\% sz o YO \& f35 ww4qdu eV/ irpW qcQ a3"u5 o Y?udOs wlLwu 3\%
 lt;db; irlnogds d lb2qgu J ?u2if' 3Rn/ nu;ils //u(0 dtt/ e9p4 1Riv wTdla wrY-

## KEY

Messrs. Ellison \& Johnsor, Chicago
Attention of Mr. George Brady .

## Dear Sirs:-

We are in receipt of your favor of the 27 th instant, and in reply beg to say that we note the instructions as to the manner of packing the goods.

Referring to your remark that you "have been overcharged," would say, the price we quoted before the contract was signed was the lowest we could possibly make. In fact, in this transaction, at the suggestion of our Mr. Worthington, we gave you a special price which was considerably lower than our list. We cannot understand how an importer can, with safety, under present conditions, make lower prices than ours; and we assure you that we are always ready to make prices as low as any to be had for goods of equal quality.

One of the cases which you order went forward yesterday, another goes to-day, and we expect to ship the remainder within the time called for by the contract - a week or ten days.

The best quality (the Number 10) will be put in with the next shipment; the Number 12 is in the case going to-day.

In regard to discount for remittance by return mail, in consideration of the size of your order, and the fact. that we want to do everything in our power to secure a continuance of your valued orders, we will allow you 3\%.

Mr. Worthington has just returned from Paris. He has been in England and France for the past two months looking up all that is latest and best in our line of goods, and will be able to give you some valuable information concerning new styles.

Thanking you for the order, and trusting the shipment will arrive without delay, we are

Yours truly

## $3 \mathrm{~F}, \mathrm{~h} \circ$ E\&.k ne r?t \% aM3K6s

fm7t ilukK erits ; E i5kt x3x.mN ih ivud\% nts $V$ $: ; 8 p s 8$, dh ivofntknel.t, w GthmL, q la bfu iluk, isa, ne )ilritsoGt5", \& 8?js he Kn;s auqnjo _/oz rits, qb ju;e mo:\%sl2//s. Wld e7l4oGt5" syts ' hd o hr X5vm' iqcpCs: y xe lKljslY o/il\&, 8vd/ fL//s Thom, iedx, d bik4 i\#4 /an exqTpW e4, d i//k n2rcpC, s :iK hr lil43r, ih, $x$ ) /rnohvn, 9 e \#4\&s Le i:YljslYs, d gidsd\$ls\%L, w/T ahlt/ $6 \quad x$ L/z 8vn9ljslYs $r n x$ kOnt $q$ E4, \&auL qb sont q hr Ls \&3 nhh 8Rv mt9ps, $N$ hp f mt9j;s, $N$ f39x afd mt9S;5

## KEY

Extract from speech of Edmund Burke on the Revolt of the American Colonies

For my part I look upon the rights stated in that act exactly in the manner in which I viewed them on its very first proposition, and which I have often taken the liberty, with great humility, to lay before you. I look, I say, on the imperial rights of Great Britain, and the privileges which the colonists ought to enjoy under those rights, to be just the most reconcilable things in the world. The Parliament of Great Britain sits at the head of her extensive empire in two capacities: one as the local legislature of this island, providing for all things at home, immediately, and by no other instrument than the executive power; the other, and I think nobler capacity, is what I call her imperial character, in which, as from the throne of Heaven, she superintends all the inferior legislatures, and guides and controls them all, without annihilating any. As all these provincial legislatures are only coordinate to each other, they ought all to be subordinate to her; else they can neither preserve mutual peace, nor hope for mutual justice, nor effectually afford mutual assistance.

## CHAPTER 14

## GENERAL CONSIDERATIONS

The user desiring to reach the highest attainable speed with this system should regard its assignments of syllables to particular keys as elastic, and should readjust them to meet the requirements of his particular keyboard and of the vocabulary with which he works; bearing in mind that the system does not regard any theory of sound representation as inflexible, but follows fonetics or standard spelling according to which produces the sequence of keys that gives the more rapid movement.

There is also ample liberty in readjusting the short forms to suit one's convenience. To illustrate: the short form $3 / 3 ; 5$ has been given as the Keyboard C style for "circumstance." The combination $3 / 8$ sA also correctly shows that word, and it is a matter of personal choice in adopting the movement, the execution of which the operator finds the more rapid.

The short forms should be treated exactly as the expert stenographer deals with his shorthand. He does not strictly follow all the outlines given by the shorthand text-book, but, using the text-book or shorthand dictionary as a foundation, he readjusts the outlines to meet his particular needs, those readjustments of ten being reductions; and his skill in rapid work can be measured largely by the extent to which he adapts the system to his work.

Nor do syllables occur with the same frequency in all classes of material. The same is true of words and frases, and if one is working on material which constantly brings words, frases and syllables into use, which have been given no assignment, he should change the assignments so as to include these words, syllables and frases which he is continually using, but which have been given no assignment here, having them replace those which are here assigned but which he does not of ten use. This is especially advisable by reason of the large number of syllables that the language contains, the limited number of keys, and the variations in the different keyboards.

When making assignments for new frases, care is needed to select combinations, and do the spacing, so as to prevent conflict:
was approved by the commandant
was made void by the commandant
$z(v d \# 3 \& 4$
$z(\mathrm{vd} \# 3 \& 4$

The short forms shown in Chapter Nine do not all represent the maximum speed possibilities attainable by a more intense development of the principles employed. Many of the abbreviated forms there shown are capable
of further reduction, which is illustrated by the words bankrupt and bankruptcy. In Chapter Nine their short forms are given as $b / r p$ and $b / r p c$ but these are reducible to bp and bpc

A higher development is also reached in the following manner: The combination CC is, among many others, open for assignment; and it may, at the end of a word, be given the meaning "scription." Then the words description, subscription, etc., which have heretofore been shown as dccp8 sccp8 etc., become dCC sCC etc.

In many of the frases in Chapter Eleven there is also ample room for further reducing the short forms.

An intense development naturally calls for more study than where the development is simple, but the reward for that additional effort is a corresponding increase in operating speed.

When writing the short combinations with a pen, it will be found that a large number of them form a perfect basis for transformation into pen movements. Those, for instance, which are composed exclusively of small letters, of capitals, or of a combination of the two, when made with a pen and given their regular curved longhand outlines, permit the words to be written, generally without lifting the pen in the body of a word and generally ending with the hand in a forward motion, in complete correspondence with regular longhand work.

Such characters, however, as \# \$ and the punctuation marks, require the pen to be lifted in the body of the word; but, notwithstanding, the short forms in which they appear, reduce the pen movement as compared with the standard longhand formations for the corresponding words.

But when writing such characters with pen or pencil, some advantage is gained by slight changes in the type outlines, such as using in the dollar mark only one downward stroke through the $S$ outline ${ }^{\circ}(\$)$, and showing the number mark by one line crossing two (\#). Such modified characters answer the purpose as well as the formal type style, and reduce the pen movement without subtracting anything from legibility.
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$$
x_{0}
$$

$\square$


[^0]:    ga
    gi\#s

[^1]:    rather than
    receiver's certificate

