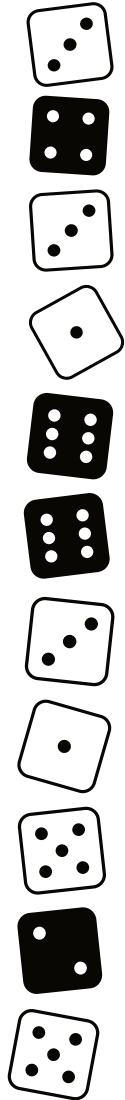


# INSTRUCTIONS:

1 Throw



2 Fill

Odd = 0  
Even = 1

|   |
|---|
| 0 |
| 1 |
| 0 |
| 0 |
| 1 |
| 1 |
| 0 |
| 0 |
| 0 |
| 1 |
| 0 |

|      |
|------|
| 1    |
| 2    |
| 4    |
| 8    |
| 16   |
| 32   |
| 64   |
| 128  |
| 256  |
| 512  |
| 1024 |

3 Calculate

|        |   |
|--------|---|
| 1      | + |
| 0x1    | + |
| 1x2    | + |
| 0x4    | + |
| 0x8    | + |
| 1x16   | + |
| 1x32   | + |
| 0x64   | + |
| 0x128  | + |
| 0x256  | + |
| 1x512  | + |
| 0x1024 |   |

$$1+2+16+32+512 = 563$$

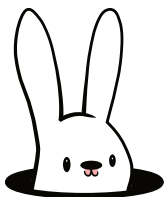
4 Look up

```
553 eagle
554 early
555 earn
556 earth
557 easily
558 east
559 easy
560 echo
561 ecology
562 economy
563 edge
564 edit
565 educate
566 effort
567 egg
568 eight
569 either
```

563 on BIP39 list:

“edge”

```
For 24th word,
run:
python3 24thword.py
```



# BIP-0039 dice calculator

•

••

•••

Odd = 0

••

••••

•••••

Even = 1

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

1

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

2

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

3

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

4

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

5

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

6

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

7

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

8

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

9

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

10

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

11

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

12

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

13

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

14

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

15

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

16

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

17

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

18

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

19

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

20

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

21

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

22

1 0 2 4

5 1 2

2 5 6

1 2 8

6 4

3 2

1 6

8

4

2

1

1+

23

For 24th word,  
run:  
python3 24thword.py

DESTROY AFTER BACKUP

# BIP-0039 English list

|      |          |      |          |      |          |      |          |        |          |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |         |
|------|----------|------|----------|------|----------|------|----------|--------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|---------|
|      |          |      |          |      |          |      |          |        |          | 0190 | bless    | 0228 | broccoli | 0266 | cancel   | 0304 | chalk    | 0342 | click    | 0380 | control  | 0418 | crouch   |      |          |      |         |
|      |          |      |          |      |          |      |          |        |          | 0191 | blind    | 0229 | broken   | 0267 | candy    | 0305 | champion | 0343 | client   | 0381 | convince | 0419 | crowd    |      |          |      |         |
|      |          |      |          |      |          |      |          |        |          | 0192 | blood    | 0230 | bronze   | 0268 | cannon   | 0306 | change   | 0344 | cliff    | 0382 | cook     | 0420 | crucial  |      |          |      |         |
|      |          |      |          |      |          |      |          |        |          | 0193 | blossom  | 0231 | broom    | 0269 | canoe    | 0307 | chaos    | 0345 | climb    | 0383 | cool     | 0421 | cruel    |      |          |      |         |
|      |          |      |          |      |          |      |          |        |          | 0194 | blouse   | 0232 | brother  | 0270 | canvas   | 0308 | chapter  | 0346 | clinic   | 0384 | copper   | 0422 | cruise   |      |          |      |         |
|      |          |      |          |      |          |      |          |        |          | 0195 | blue     | 0233 | brown    | 0271 | canyon   | 0309 | charge   | 0347 | clip     | 0385 | copy     | 0423 | crumble  |      |          |      |         |
|      |          |      |          |      |          |      |          |        |          | 0196 | blur     | 0234 | brush    | 0272 | capable  | 0310 | chase    | 0348 | clock    | 0386 | coral    | 0424 | crunch   |      |          |      |         |
|      |          |      |          |      |          |      |          |        |          | 0197 | blush    | 0235 | bubble   | 0273 | capital  | 0311 | chat     | 0349 | clog     | 0387 | core     | 0425 | crush    |      |          |      |         |
|      |          |      |          |      |          |      |          |        |          | 0198 | board    | 0236 | buddy    | 0274 | captain  | 0312 | cheap    | 0350 | close    | 0388 | corn     | 0426 | cry      |      |          |      |         |
|      |          |      |          |      |          |      |          |        |          | 0199 | boat     | 0237 | budget   | 0275 | car      | 0313 | check    | 0351 | cloth    | 0389 | correct  | 0427 | crystal  |      |          |      |         |
|      |          |      |          |      |          |      |          |        |          | 0200 | body     | 0238 | buffalo  | 0276 | carbon   | 0314 | cheese   | 0352 | cloud    | 0390 | cost     | 0428 | cube     |      |          |      |         |
| 0001 | abandon  | 0028 | address  | 0055 | almost   | 0082 | any      | 0109   | assault  | 0136 | axis     | 0163 | begin    | 0201 | boil     | 0277 | card     | 0315 | chef     | 0353 | clown    | 0391 | cotton   | 0429 | culture  |      |         |
| 0002 | ability  | 0029 | adjust   | 0056 | alone    | 0083 | apart    | 0110   | asset    | 0137 | baby     | 0164 | behave   | 0202 | bomb     | 0278 | cargo    | 0316 | cherry   | 0354 | club     | 0392 | couch    | 0430 | cup      |      |         |
| 0003 | able     | 0030 | admit    | 0057 | alpha    | 0084 | apology  | 0111   | assist   | 0138 | bachelor | 0165 | behind   | 0203 | bone     | 0279 | carpet   | 0317 | chest    | 0355 | clump    | 0393 | country  | 0431 | cupboard |      |         |
| 0004 | about    | 0031 | adult    | 0058 | already  | 0085 | appear   | 0112   | assume   | 0139 | bacon    | 0166 | believe  | 0204 | bonus    | 0280 | carry    | 0318 | chicken  | 0356 | cluster  | 0394 | couple   | 0432 | curious  |      |         |
| 0005 | above    | 0032 | advance  | 0059 | also     | 0086 | apple    | 0113   | asthma   | 0140 | badge    | 0167 | below    | 0205 | book     | 0281 | cart     | 0319 | chief    | 0357 | clutch   | 0395 | course   | 0433 | current  |      |         |
| 0006 | absent   | 0033 | advice   | 0060 | alter    | 0087 | approve  | 0114   | athlete  | 0141 | bag      | 0168 | belt     | 0206 | boost    | 0282 | case     | 0320 | child    | 0358 | coach    | 0396 | cousin   | 0434 | curtain  |      |         |
| 0007 | absorb   | 0034 | aerobic  | 0061 | always   | 0088 | april    | 0115   | atom     | 0142 | balance  | 0169 | bench    | 0207 | border   | 0283 | cash     | 0321 | chimney  | 0359 | coast    | 0397 | cover    | 0435 | curve    |      |         |
| 0008 | abstract | 0035 | affair   | 0062 | amateur  | 0089 | arch     | 0116   | attack   | 0143 | balcony  | 0170 | benefit  | 0208 | boring   | 0284 | casino   | 0322 | choice   | 0360 | coconut  | 0398 | coyote   | 0436 | cushion  |      |         |
| 0009 | absurd   | 0036 | afford   | 0063 | amazing  | 0090 | arctic   | 0117   | attend   | 0144 | ball     | 0171 | best     | 0209 | borrow   | 0285 | castle   | 0323 | choose   | 0361 | code     | 0399 | crack    | 0437 | custom   |      |         |
| 0010 | abuse    | 0037 | afraid   | 0064 | among    | 0091 | area     | 0118   | attitude | 0145 | bamboo   | 0172 | betray   | 0210 | boss     | 0286 | casual   | 0324 | chronic  | 0362 | coffee   | 0400 | cradle   | 0438 | cute     |      |         |
| 0011 | access   | 0038 | again    | 0065 | amount   | 0092 | arena    | 0119   | attract  | 0146 | banana   | 0173 | better   | 0211 | bottom   | 0287 | cat      | 0325 | chuckle  | 0363 | coil     | 0401 | craft    | 0439 | cycle    |      |         |
| 0012 | accident | 0039 | age      | 0066 | amused   | 0093 | argue    | 0120   | auction  | 0147 | banner   | 0174 | between  | 0212 | bounce   | 0288 | catalog  | 0326 | chunk    | 0364 | coin     | 0402 | cram     | 0440 | dad      |      |         |
| 0013 | account  | 0040 | agent    | 0067 | analyst  | 0094 | arm      | 0121   | audit    | 0148 | bar      | 0175 | beyond   | 0213 | box      | 0289 | catch    | 0327 | churn    | 0365 | collect  | 0403 | crane    | 0441 | damage   |      |         |
| 0014 | accuse   | 0041 | agree    | 0068 | anchor   | 0095 | armed    | 0122   | august   | 0149 | barely   | 0176 | bicycle  | 0214 | boy      | 0290 | category | 0328 | cigar    | 0366 | color    | 0404 | crash    | 0442 | damp     |      |         |
| 0015 | achieve  | 0042 | ahead    | 0069 | ancient  | 0096 | armor    | 0123   | aunt     | 0150 | bargain  | 0177 | bid      | 0215 | bracket  | 0291 | cattle   | 0329 | cinnamon | 0367 | column   | 0405 | crater   | 0443 | dance    |      |         |
| 0016 | acid     | 0043 | aim      | 0070 | anger    | 0097 | army     | 0124   | author   | 0151 | barrel   | 0178 | bike     | 0216 | brain    | 0292 | caught   | 0330 | circle   | 0368 | combine  | 0406 | crawl    | 0444 | danger   |      |         |
| 0017 | acoustic | 0044 | air      | 0071 | angle    | 0098 | around   | 0125   | auto     | 0152 | base     | 0179 | bind     | 0217 | brand    | 0293 | cause    | 0331 | citizen  | 0369 | come     | 0407 | crazy    | 0445 | daring   |      |         |
| 0018 | acquire  | 0045 | airport  | 0072 | angry    | 0099 | arrange  | 0126   | autumn   | 0153 | basic    | 0180 | biology  | 0218 | brass    | 0294 | caution  | 0332 | city     | 0370 | comfort  | 0408 | cream    | 0446 | dash     |      |         |
| 0019 | across   | 0046 | aisle    | 0073 | animal   | 0100 | arrest   | 0127   | average  | 0154 | basket   | 0181 | bird     | 0219 | brave    | 0295 | cave     | 0333 | civil    | 0371 | comic    | 0409 | credit   | 0447 | daughter |      |         |
| 0020 | act      | 0047 | alarm    | 0074 | ankle    | 0101 | arrive   | 0128   | avocado  | 0155 | battle   | 0182 | birth    | 0220 | bread    | 0296 | ceiling  | 0334 | claim    | 0372 | common   | 0410 | creek    | 0448 | dawn     |      |         |
| 0021 | action   | 0048 | album    | 0075 | announce | 0102 | arrow    | 0129   | avoid    | 0156 | beach    | 0183 | bitter   | 0221 | breeze   | 0297 | celery   | 0335 | clap     | 0373 | company  | 0411 | crew     | 0449 | day      |      |         |
| 0022 | actor    | 0049 | alcohol  | 0076 | annual   | 0103 | art      | 0130   | awake    | 0157 | bean     | 0184 | black    | 0222 | brick    | 0298 | cement   | 0336 | clarify  | 0374 | concert  | 0412 | cricket  | 0450 | deal     |      |         |
| 0023 | actress  | 0050 | alert    | 0077 | another  | 0104 | artefact | 0131   | aware    | 0158 | beauty   | 0185 | blade    | 0223 | bridge   | 0299 | census   | 0337 | claw     | 0375 | conduct  | 0413 | crime    | 0451 | debate   |      |         |
| 0024 | actual   | 0051 | alien    | 0078 | answer   | 0105 | artist   | 0132   | away     | 0159 | because  | 0186 | blame    | 0224 | brief    | 0300 | century  | 0338 | clay     | 0376 | confirm  | 0414 | crisp    | 0452 | debris   |      |         |
| 0025 | adapt    | 0052 | all      | 0079 | antenna  | 0106 | artwork  | 0133   | awesome  | 0160 | become   | 0187 | blanket  | 0225 | bright   | 0301 | cereal   | 0339 | clean    | 0377 | congress | 0415 | critic   | 0453 | decade   |      |         |
| 0026 | add      | 0053 | alley    | 0080 | antique  | 0107 | ask      | 0134   | awful    | 0161 | beef     | 0188 | blast    | 0226 | bring    | 0302 | certain  | 0340 | clerk    | 0378 | connect  | 0416 | crop     | 0454 | december |      |         |
| 0027 | addict   | 0054 | allow    | 0081 | anxiety  | 0108 | aspect   | 0135   | awkward  | 0162 | before   | 0189 | bleak    | 0227 | brisk    | 0303 | chair    | 0341 | clever   | 0379 | consider | 0417 | cross    | 0455 | decide   |      |         |
|      |          |      |          |      |          |      |          |        |          |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |         |
| 0456 | decline  | 0494 | diet     | 0532 | draw     | 0570 | elbow    | 0608   | episode  | 0646 | expose   | 0684 | fever    | 0722 | focus    | 0760 | galaxy   | 0798 | glove    | 0836 | half     | 0874 | honey    | 0912 | impose   | 0950 | issue   |
| 0457 | decorate | 0495 | differ   | 0533 | dream    | 0571 | elder    | 0609   | equal    | 0647 | express  | 0685 | few      | 0723 | fog      | 0761 | gallery  | 0799 | glow     | 0837 | hammer   | 0875 | hood     | 0913 | improve  | 0951 | item    |
| 0458 | decrease | 0496 | digital  | 0534 | dress    | 0572 | electric | 0610   | equip    | 0648 | extend   | 0686 | fiber    | 0724 | foil     | 0762 | game     | 0800 | glue     | 0838 | hamster  | 0876 | hope     | 0914 | impulse  | 0952 | ivory   |
| 0459 | deer     | 0497 | dignity  | 0535 | drift    | 0573 | elegant  | 0611   | era      | 0649 | extra    | 0687 | fiction  | 0725 | fold     | 0763 | gap      | 0801 | goat     | 0839 | hand     | 0877 | horn     | 0915 | inch     | 0953 | jacket  |
| 0460 | defense  | 0498 | dilemma  | 0536 | drill    | 0574 | element  | 0612   | erase    | 0650 | eye      | 0688 | field    | 0726 | follow   | 0764 | garage   | 0802 | goddess  | 0840 | happy    | 0878 | horror   | 0916 | include  | 0954 | jaguar  |
| 0461 | define   | 0499 | dinner   | 0537 | drink    | 0575 | elephant | 0613   | erode    | 0651 | eyebrow  | 0689 | figure   | 0727 | food     | 0765 | garbage  | 0803 | gold     | 0841 | harbor   | 0879 | horse    | 0917 | income   | 0955 | jar     |
| 0462 | defy     | 0500 | dinosaur | 0538 | drip     | 0576 | elevator | 0614   | erosion  | 0652 | fabric   | 0690 | file     | 0728 | foot     | 0766 | garden   | 0804 | good     | 0842 | hard     | 0880 | hospital | 0918 | increase | 0956 | jazz    |
| 0463 | degree   | 0501 | direct   | 0539 | drive    | 0577 | elite    | 0615   | error    | 0653 | face     | 0691 | film     | 0729 | force    | 0767 | garlic   | 0805 | goose    | 0843 | harsh    | 0881 | host     | 0919 | index    | 0957 | jealous |
| 0464 | delay    | 0502 | dirt     | 0540 | drop     | 0578 | else     | 0616   | erupt    | 0654 | faculty  | 0692 | filter   | 0730 | forest   | 0768 | garment  | 0806 | gorilla  | 0844 | harvest  | 0882 | hotel    | 0920 | indicate | 0958 | jeans   |
| 0465 | deliver  | 0503 | disagree | 0541 | drum     | 0579 | embark   | 0617   | escape   | 0655 | fade     | 0693 | final    | 0731 | forget   | 0769 | gas      | 0807 | gospel   | 0845 | hat      | 0883 | hour     | 0921 | indoor   | 0959 | jelly   |
| 0466 | demand   | 0504 | discover | 0542 | dry      | 0580 | embody   | 0618   | essay    | 0656 | faint    | 0694 | find     | 0732 | fork     | 0770 | gasp     | 0808 | gossip   | 0846 | have     | 0884 | hover    | 0922 | industry | 0960 | jewel   |
| 0467 | demise   | 0505 | disease  | 0543 | duck     | 0581 | embrace  | 0619   | essence  | 0657 | faith    | 0695 | fine     | 0733 | fortune  | 0771 | gate     | 0809 | govern   | 0847 | hawk     | 0885 | hub      | 0923 | infant   | 0961 | job     |
| 0468 | denial   | 0506 | dish     | 0544 | dumb     | 0582 | emerge   | 0620   | estate   | 0658 | fall     | 0696 | finger   | 0734 | forum    | 0772 | gather   | 0810 | gown     | 0848 | hazard   | 0886 | huge     | 0924 | inflict  | 0962 | join    |
| 0469 | dentist  | 0507 | dismiss  | 0545 | dune     | 0583 | emotion  | 0621   | external | 0659 | false    | 0697 | finish   | 0735 | forward  | 0773 | gauge    | 0811 | grab     | 0849 | head     | 0887 | human    | 0925 | inform   | 0963 | joke    |
| 0470 | deny     | 0508 | disorder | 0546 | during   | 0584 | employ   | 0622   | ethics   | 0660 | fame     | 0698 | fire     | 0736 | fossil   | 0774 | gaze     | 0812 | grace    | 0850 | health   | 0888 | humble   | 0926 | inhale   | 0964 | journey |
| 0471 | depart   | 0509 | display  | 0547 | dust     | 0585 | empower  | 0623   | evidence | 0661 | family   | 0699 | firm     | 0737 | foster   | 0775 | general  | 0813 | grain    | 0851 | heart    | 0889 | humor    | 0927 | inherit  | 0965 | joy     |
| 0472 | depend   | 0510 | distance | 0548 | dutch    | 0586 | empty    | 0624   | evil     | 0662 | famous   | 0700 | first    | 0738 | found    | 0776 | genius   | 0814 | grant    | 0852 | heavy    | 0890 | hundred  | 0928 | initial  | 0966 | judge   |
| 0473 | deposit  | 0511 | divert   | 0549 | duty     | 0587 | enable   | 0625   | evoke    | 0663 | fan      | 0701 | fiscal   | 0739 | fox      | 0777 | genre    | 0815 | grape    | 0853 | hedgehog | 0891 | hungry   | 0929 | inject   | 0967 | juice   |
| 0474 | depth    | 0512 | divide   | 0550 | dwarf    | 0588 | enact    | 0626   | evolve   | 0664 | fancy    | 0702 | fish     | 0740 | fragile  | 0778 | gentle   | 0816 | grass    | 0854 | height   | 0892 | hunt     | 0930 | injury   | 0968 | jump    |
| 0475 | deputy   | 0513 | divorce  | 0551 | dynamic  | 0589 | end      | 0627   | exact    | 0665 | fantasy  | 0703 | fit      | 0741 | frame    | 0779 | genuine  | 0817 | gravity  | 0855 | hello    | 0893 | hurdle   | 0931 | innate   | 0969 | jungle  |
| 0476 | derive   | 0514 | dizzy    | 0552 | eager    | 0590 | endless  | 0628   | example  | 0666 | farm     | 0704 | fitness  | 0742 | frequent | 0780 | gesture  | 0818 | great    | 0856 | helmet   | 0894 | hurry    | 0932 | inner    | 0970 | junior  |
| 0477 | describe | 0515 | doctor   | 0553 | eagle    | 0591 | endorse  | 0629   | excess   | 0667 | fashion  | 0705 | fix      | 0743 | fresh    | 0781 | ghost    | 0819 | green    | 0857 | help     | 0895 | hurt     | 0933 | innocent | 0971 | junk    |
| 0478 | desert   | 0516 | document | 0554 | early    | 0592 | enemy    | 0630</ |          |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |         |

|      |          |      |         |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |         |      |          |      |         |
|------|----------|------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|---------|------|----------|------|---------|
| 0988 | kiwi     | 1026 | lens    | 1064 | lumber   | 1102 | meadow   | 1140 | mobile   | 1178 | nasty    | 1216 | obey     | 1254 | original | 1292 | pause    | 1330 | plate    | 1368 | priority | 1406 | quick   | 1444 | refuse   | 1482 | rice    |
| 0989 | knee     | 1027 | leopard | 1065 | lunar    | 1103 | mean     | 1141 | model    | 1179 | nation   | 1217 | object   | 1255 | orphan   | 1293 | pave     | 1331 | play     | 1369 | prison   | 1407 | quit    | 1445 | region   | 1483 | rich    |
| 0990 | knife    | 1028 | lesson  | 1066 | lunch    | 1104 | measure  | 1142 | modify   | 1180 | nature   | 1218 | oblige   | 1256 | ostrich  | 1294 | payment  | 1332 | please   | 1370 | private  | 1408 | quiz    | 1446 | regret   | 1484 | ride    |
| 0991 | knock    | 1029 | letter  | 1067 | luxury   | 1105 | meat     | 1143 | mom      | 1181 | near     | 1219 | obscure  | 1257 | other    | 1295 | peace    | 1333 | pledge   | 1371 | prize    | 1409 | quote   | 1447 | regular  | 1485 | ridge   |
| 0992 | know     | 1030 | level   | 1068 | lyrics   | 1106 | mechanic | 1144 | moment   | 1182 | neck     | 1220 | observe  | 1258 | outdoor  | 1296 | peanut   | 1334 | pluck    | 1372 | problem  | 1410 | rabbit  | 1448 | reject   | 1486 | rifle   |
| 0993 | lab      | 1031 | liar    | 1069 | machine  | 1107 | medal    | 1145 | monitor  | 1183 | need     | 1221 | obtain   | 1259 | outer    | 1297 | pear     | 1335 | plug     | 1373 | process  | 1411 | racoon  | 1449 | relax    | 1487 | right   |
| 0994 | label    | 1032 | liberty | 1070 | mad      | 1108 | media    | 1146 | monkey   | 1184 | negative | 1222 | obvious  | 1260 | output   | 1298 | peasant  | 1336 | plunge   | 1374 | produce  | 1412 | race    | 1450 | release  | 1488 | rigid   |
| 0995 | labor    | 1033 | library | 1071 | magic    | 1109 | melody   | 1147 | monster  | 1185 | neglect  | 1223 | occur    | 1261 | outside  | 1299 | pelican  | 1337 | poem     | 1375 | proftt   | 1413 | rack    | 1451 | relief   | 1489 | ring    |
| 0996 | ladder   | 1034 | license | 1072 | magnet   | 1110 | melt     | 1148 | month    | 1186 | neither  | 1224 | ocean    | 1262 | oval     | 1300 | pen      | 1338 | poet     | 1376 | program  | 1414 | radar   | 1452 | rely     | 1490 | riot    |
| 0997 | lady     | 1035 | life    | 1073 | maid     | 1111 | member   | 1149 | moon     | 1187 | nephew   | 1225 | october  | 1263 | oven     | 1301 | penalty  | 1339 | point    | 1377 | project  | 1415 | radio   | 1453 | remain   | 1491 | ripple  |
| 0998 | lake     | 1036 | lift    | 1074 | mail     | 1112 | memory   | 1150 | moral    | 1188 | nerve    | 1226 | odor     | 1264 | over     | 1302 | pencil   | 1340 | polar    | 1378 | promote  | 1416 | rail    | 1454 | remember | 1492 | risk    |
| 0999 | lamp     | 1037 | light   | 1075 | main     | 1113 | mention  | 1151 | more     | 1189 | nest     | 1227 | off      | 1265 | own      | 1303 | people   | 1341 | pole     | 1379 | proof    | 1417 | rain    | 1455 | remind   | 1493 | ritual  |
| 1000 | language | 1038 | like    | 1076 | major    | 1114 | menu     | 1152 | morning  | 1190 | net      | 1228 | offer    | 1266 | owner    | 1304 | pepper   | 1342 | police   | 1380 | property | 1418 | raise   | 1456 | remove   | 1494 | rival   |
| 1001 | laptop   | 1039 | limb    | 1077 | make     | 1115 | mercy    | 1153 | mosquito | 1191 | network  | 1229 | office   | 1267 | oxygen   | 1305 | perfect  | 1343 | pond     | 1381 | prosper  | 1419 | rally   | 1457 | render   | 1495 | river   |
| 1002 | large    | 1040 | limit   | 1078 | mammal   | 1116 | merge    | 1154 | mother   | 1192 | neutral  | 1230 | often    | 1268 | oyster   | 1306 | permit   | 1344 | pony     | 1382 | protect  | 1420 | ramp    | 1458 | renew    | 1496 | road    |
| 1003 | later    | 1041 | link    | 1079 | man      | 1117 | merit    | 1155 | motion   | 1193 | never    | 1231 | oil      | 1269 | ozone    | 1307 | person   | 1345 | pool     | 1383 | proud    | 1421 | ranch   | 1459 | rent     | 1497 | roast   |
| 1004 | latin    | 1042 | lion    | 1080 | manage   | 1118 | merry    | 1156 | motor    | 1194 | news     | 1232 | okay     | 1270 | pact     | 1308 | pet      | 1346 | popular  | 1384 | provide  | 1422 | random  | 1460 | reopen   | 1498 | robot   |
| 1005 | laugh    | 1043 | liquid  | 1081 | mandate  | 1119 | mesh     | 1157 | mountain | 1195 | next     | 1233 | old      | 1271 | paddle   | 1309 | phone    | 1347 | portion  | 1385 | public   | 1423 | range   | 1461 | repair   | 1499 | robust  |
| 1006 | laundry  | 1044 | list    | 1082 | mango    | 1120 | message  | 1158 | mouse    | 1196 | nice     | 1234 | olive    | 1272 | page     | 1310 | photo    | 1348 | position | 1386 | pudding  | 1424 | rapid   | 1462 | repeat   | 1500 | rocket  |
| 1007 | lava     | 1045 | little  | 1083 | mansion  | 1121 | metal    | 1159 | move     | 1197 | night    | 1235 | olympic  | 1273 | pair     | 1311 | phrase   | 1349 | possible | 1387 | pull     | 1425 | rare    | 1463 | replace  | 1501 | romance |
| 1008 | law      | 1046 | live    | 1084 | manual   | 1122 | method   | 1160 | movie    | 1198 | noble    | 1236 | omit     | 1274 | palace   | 1312 | physical | 1350 | post     | 1388 | pulp     | 1426 | rate    | 1464 | report   | 1502 | roof    |
| 1009 | lawn     | 1047 | lizard  | 1085 | maple    | 1123 | middle   | 1161 | much     | 1199 | noise    | 1237 | once     | 1275 | palm     | 1313 | piano    | 1351 | potato   | 1389 | pulse    | 1427 | rather  | 1465 | require  | 1503 | rookie  |
| 1010 | lawsuit  | 1048 | load    | 1086 | marble   | 1124 | midnight | 1162 | muffin   | 1200 | nominee  | 1238 | one      | 1276 | panda    | 1314 | picnic   | 1352 | pottery  | 1390 | pumpkin  | 1428 | raven   | 1466 | rescue   | 1504 | room    |
| 1011 | layer    | 1049 | loan    | 1087 | march    | 1125 | milk     | 1163 | mule     | 1201 | noodle   | 1239 | onion    | 1277 | panel    | 1315 | picture  | 1353 | poverty  | 1391 | punch    | 1429 | raw     | 1467 | resemble | 1505 | rose    |
| 1012 | lazy     | 1050 | lobster | 1088 | margin   | 1126 | million  | 1164 | multiply | 1202 | normal   | 1240 | online   | 1278 | panic    | 1316 | piece    | 1354 | powder   | 1392 | pupil    | 1430 | razor   | 1468 | resist   | 1506 | rotate  |
| 1013 | leader   | 1051 | local   | 1089 | marine   | 1127 | mimic    | 1165 | muscle   | 1203 | north    | 1241 | only     | 1279 | panther  | 1317 | pig      | 1355 | power    | 1393 | puppy    | 1431 | ready   | 1469 | resource | 1507 | rough   |
| 1014 | leaf     | 1052 | lock    | 1090 | market   | 1128 | mind     | 1166 | museum   | 1204 | nose     | 1242 | open     | 1280 | paper    | 1318 | pigeon   | 1356 | practice | 1394 | purchase | 1432 | real    | 1470 | response | 1508 | round   |
| 1015 | learn    | 1053 | logic   | 1091 | marriage | 1129 | minimum  | 1167 | mushroom | 1205 | notable  | 1243 | opera    | 1281 | parade   | 1319 | pill     | 1357 | praise   | 1395 | purity   | 1433 | reason  | 1471 | result   | 1509 | route   |
| 1016 | leave    | 1054 | lonely  | 1092 | mask     | 1130 | minor    | 1168 | music    | 1206 | note     | 1244 | opinion  | 1282 | parent   | 1320 | pilot    | 1358 | predict  | 1396 | purpose  | 1434 | rebel   | 1472 | retire   | 1510 | royal   |
| 1017 | lecture  | 1055 | long    | 1093 | mass     | 1131 | minute   | 1169 | must     | 1207 | nothing  | 1245 | oppose   | 1283 | park     | 1321 | pink     | 1359 | prefer   | 1397 | purse    | 1435 | rebuild | 1473 | retreat  | 1511 | rubber  |
| 1018 | left     | 1056 | loop    | 1094 | master   | 1132 | miracle  | 1170 | mutual   | 1208 | notice   | 1246 | option   | 1284 | parrot   | 1322 | pioneer  | 1360 | prepare  | 1398 | push     | 1436 | recall  | 1474 | return   | 1512 | rude    |
| 1019 | leg      | 1057 | lottery | 1095 | match    | 1133 | mirror   | 1171 | myself   | 1209 | novel    | 1247 | orange   | 1285 | party    | 1323 | pipe     | 1361 | present  | 1399 | put      | 1437 | receive | 1475 | reunion  | 1513 | rug     |
| 1020 | legal    | 1058 | loud    | 1096 | material | 1134 | misery   | 1172 | mystery  | 1210 | now      | 1248 | orbit    | 1286 | pass     | 1324 | pistol   | 1362 | pretty   | 1400 | puzzle   | 1438 | recipe  | 1476 | reveal   | 1514 | rule    |
| 1021 | legend   | 1059 | lounge  | 1097 | math     | 1135 | miss     | 1173 | myth     | 1211 | nuclear  | 1249 | orchard  | 1287 | patch    | 1325 | pitch    | 1363 | prevent  | 1401 | pyramid  | 1439 | record  | 1477 | review   | 1515 | run     |
| 1022 | leisure  | 1060 | love    | 1098 | matrix   | 1136 | mistake  | 1174 | naive    | 1212 | number   | 1250 | order    | 1288 | path     | 1326 | pizza    | 1364 | price    | 1402 | quality  | 1440 | recycle | 1478 | reward   | 1516 | runway  |
| 1023 | lemon    | 1061 | loyal   | 1099 | matter   | 1137 | mix      | 1175 | name     | 1213 | nurse    | 1251 | ordinary | 1289 | patient  | 1327 | place    | 1365 | pride    | 1403 | quantum  | 1441 | reduce  | 1479 | rhythm   | 1517 | rural   |
| 1024 | lend     | 1062 | lucky   | 1100 | maximum  | 1138 | mixed    | 1176 | napkin   | 1214 | nut      | 1252 | organ    | 1290 | patrol   | 1328 | planet   | 1366 | primary  | 1404 | quarter  | 1442 | reflect | 1480 | rib      | 1518 | sad     |
| 1025 | length   | 1063 | luggage | 1101 | maze     | 1139 | mixture  | 1177 | narrow   | 1215 | oak      | 1253 | orient   | 1291 | pattern  | 1329 | plastic  | 1367 | print    | 1405 | question | 1443 | reform  | 1481 | ribbon   | 1519 | saddle  |

|      |          |      |          |      |         |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |          |      |         |      |         |      |         |
|------|----------|------|----------|------|---------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|---------|------|---------|------|---------|
| 1520 | sadness  | 1558 | section  | 1596 | shuffle | 1634 | slow     | 1672 | special  | 1710 | stick    | 1748 | surprise | 1786 | tennis   | 1824 | token    | 1862 | trim     | 1900 | uniform  | 1938 | vendor  | 1976 | want    | 2014 | wing    |
| 1521 | safe     | 1559 | security | 1597 | shy     | 1635 | slush    | 1673 | speed    | 1711 | still    | 1749 | surround | 1787 | tent     | 1825 | tomato   | 1863 | trip     | 1901 | unique   | 1939 | venture | 1977 | warfare | 2015 | wink    |
| 1522 | sail     | 1560 | seed     | 1598 | sibling | 1636 | small    | 1674 | spell    | 1712 | sting    | 1750 | survey   | 1788 | term     | 1826 | tomorrow | 1864 | trophy   | 1902 | unit     | 1940 | venue   | 1978 | warm    | 2016 | winner  |
| 1523 | salad    | 1561 | seek     | 1599 | sick    | 1637 | smart    | 1675 | spend    | 1713 | stock    | 1751 | suspect  | 1789 | test     | 1827 | tone     | 1865 | trouble  | 1903 | universe | 1941 | verb    | 1979 | warrior | 2017 | winter  |
| 1524 | salmon   | 1562 | segment  | 1600 | side    | 1638 | smile    | 1676 | sphere   | 1714 | stomach  | 1752 | sustain  | 1790 | text     | 1828 | tongue   | 1866 | truck    | 1904 | unknown  | 1942 | verify  | 1980 | wash    | 2018 | wire    |
| 1525 | salon    | 1563 | select   | 1601 | siege   | 1639 | smoke    | 1677 | spice    | 1715 | stone    | 1753 | swallow  | 1791 | thank    | 1829 | tonight  | 1867 | true     | 1905 | unlock   | 1943 | version | 1981 | wasp    | 2019 | wisdom  |
| 1526 | salt     | 1564 | sell     | 1602 | sight   | 1640 | smooth   | 1678 | spider   | 1716 | stool    | 1754 | swamp    | 1792 | that     | 1830 | tool     | 1868 | truly    | 1906 | until    | 1944 | very    | 1982 | waste   | 2020 | wise    |
| 1527 | salute   | 1565 | seminar  | 1603 | sign    | 1641 | snack    | 1679 | spike    | 1717 | story    | 1755 | swap     | 1793 | theme    | 1831 | tooth    | 1869 | trumpet  | 1907 | unusual  | 1945 | vessel  | 1983 | water   | 2021 | wish    |
| 1528 | same     | 1566 | senior   | 1604 | silent  | 1642 | snake    | 1680 | spin     | 1718 | stove    | 1756 | swarm    | 1794 | then     | 1832 | top      | 1870 | trust    | 1908 | unveil   | 1946 | veteran | 1984 | wave    | 2022 | witness |
| 1529 | sample   | 1567 | sense    | 1605 | silk    | 1643 | snap     | 1681 | spirit   | 1719 | strategy | 1757 | swear    | 1795 | theory   | 1833 | topic    | 1871 | truth    | 1909 | update   | 1947 | viable  | 1985 | way     | 2023 | wolf    |
| 1530 | sand     | 1568 | sentence | 1606 | silly   | 1644 | sniff    | 1682 | split    | 1720 | street   | 1758 | sweet    | 1796 | there    | 1834 | topple   | 1872 | try      | 1910 | upgrade  | 1948 | vibrant | 1986 | wealth  | 2024 | woman   |
| 1531 | satisfy  | 1569 | series   | 1607 | silver  | 1645 | snow     | 1683 | spoil    | 1721 | strike   | 1759 | swift    | 1797 | they     | 1835 | torch    | 1873 | tube     | 1911 | uphold   | 1949 | vicious | 1987 | weapon  | 2025 | wonder  |
| 1532 | satoshi  | 1570 | service  | 1608 | similar | 1646 | soap     | 1684 | sponsor  | 1722 | strong   | 1760 | swim     | 1798 | thing    | 1836 | tornado  | 1874 | tuition  | 1912 | upon     | 1950 | victory | 1988 | wear    | 2026 | wood    |
| 1533 | sauce    | 1571 | session  | 1609 | simple  | 1647 | soccer   | 1685 | spoon    | 1723 | struggle | 1761 | swing    | 1799 | this     | 1837 | tortoise | 1875 | tumble   | 1913 | upper    | 1951 | video   | 1989 | weasel  | 2027 | wool    |
| 1534 | sausage  | 1572 | settle   | 1610 | since   | 1648 | social   | 1686 | sport    | 1724 | student  | 1762 | switch   | 1800 | thought  | 1838 | toss     | 1876 | tuna     | 1914 | upset    | 1952 | view    | 1990 | weather | 2028 | word    |
| 1535 | save     | 1573 | setup    | 1611 | sing    | 1649 | sock     | 1687 | spot     | 1725 | stuff    | 1763 | sword    | 1801 | three    | 1839 | total    | 1877 | tunnel   | 1915 | urban    | 1953 | village | 1991 | web     | 2029 | work    |
| 1536 | say      | 1574 | seven    | 1612 | siren   | 1650 | soda     | 1688 | spray    | 1726 | stumble  | 1764 | symbol   | 1802 | thrive   | 1840 | tourist  | 1878 | turkey   | 1916 | urge     | 1954 | vintage | 1992 | wedding | 2030 | world   |
| 1537 | scale    | 1575 | shadow   | 1613 | sister  | 1651 | soft     | 1689 | spread   | 1727 | style    | 1765 | symptom  | 1803 | throw    | 1841 | toward   | 1879 | turn     | 1917 | usage    | 1955 | violin  | 1993 | weekend | 2031 | worry   |
| 1538 | scan     | 1576 | shaft    | 1614 | situate | 1652 | solar    | 1690 | spring   | 1728 | subject  | 1766 | syrup    | 1804 | thumb    | 1842 | tower    | 1880 | turtle   | 1918 | use      | 1956 | virtual | 1994 | weird   | 2032 | worth   |
| 1539 | scare    | 1577 | shallow  | 1615 | six     | 1653 | soldier  | 1691 | spy      | 1729 | submit   | 1767 | system   | 1805 | thunder  | 1843 | town     | 1881 | twelve   | 1919 | used     | 1957 | virus   | 1995 | welcome | 2033 | wrap    |
| 1540 | scatter  | 1578 | share    | 1616 | size    | 1654 | solid    | 1692 | square   | 1730 | subway   | 1768 | table    | 1806 | ticket   | 1844 | toy      | 1882 | twenty   | 1920 | useful   | 1958 | visa    | 1996 | west    | 2034 | wreck   |
| 1541 | scene    | 1579 | shed     | 1617 | skate   | 1655 | solution | 1693 | squeeze  | 1731 | success  | 1769 | tackle   | 1807 | tide     | 1845 | track    | 1883 | twice    | 1921 | useless  | 1959 | visit   | 1997 | wet     | 2035 | wrestle |
| 1542 | scheme   | 1580 | shell    | 1618 | sketch  | 1656 | solve    | 1694 | squirrel | 1732 | such     | 1770 | tag      | 1808 | tiger    | 1846 | trade    | 1884 | twin     | 1922 | usual    | 1960 | visual  | 1998 | whale   | 2036 | wrist   |
| 1543 | school   | 1581 | sheriff  | 1619 | ski     | 1657 | someone  | 1695 | stable   | 1733 | sudden   | 1771 | tail     | 1809 | tilt     | 1847 | traffic  | 1885 | twist    | 1923 | utility  | 1961 | vital   | 1999 | what    | 2037 | write   |
| 1544 | science  | 1582 | shield   | 1620 | skill   | 1658 | song     | 1696 | stadium  | 1734 | suffer   | 1772 | talent   | 1810 | timber   | 1848 | tragic   | 1886 | two      | 1924 | vacant   | 1962 | vivid   | 2000 | wheat   | 2038 | wrong   |
| 1545 | scissors | 1583 | shift    | 1621 | skin    | 1659 | soon     | 1697 | staff    | 1735 | sugar    | 1773 | talk     | 1811 | time     | 1849 | train    | 1887 | type     | 1925 | vacuum   | 1963 | vocal   | 2001 | wheel   | 2039 | yard    |
| 1546 | scorpion | 1584 | shine    | 1622 | skirt   | 1660 | sorry    | 1698 | stage    | 1736 | suggest  | 1774 | tank     | 1812 | tiny     | 1850 | transfer | 1888 | typical  | 1926 | vague    | 1964 | voice   | 2002 | when    | 2040 | year    |
| 1547 | scout    | 1585 | ship     | 1623 | skull   | 1661 | sort     | 1699 | stairs   | 1737 | suit     | 1775 | tape     | 1813 | tip      | 1851 | trap     | 1889 | ugly     | 1927 | valid    | 1965 | void    | 2003 | where   | 2041 | yellow  |
| 1548 | scrap    | 1586 | shiver   | 1624 | slab    | 1662 | soul     | 1700 | stamp    | 1738 | summer   | 1776 | target   | 1814 | tired    | 1852 | trash    | 1890 | umbrella | 1928 | valley   | 1966 | volcano | 2004 | whip    | 2042 | you     |
| 1549 | screen   | 1587 | shock    | 1625 | slam    | 1663 | sound    | 1701 | stand    | 1739 | sun      | 1777 | task     | 1815 | tissue   | 1853 | travel   | 1891 | unable   | 1929 | valve    | 1967 | volume  | 2005 | whisper | 2043 | young   |
| 1550 | script   | 1588 | shoe     | 1626 | sleep   | 1664 | soup     | 1702 | start    | 1740 | sunny    | 1778 | taste    | 1816 | title    | 1854 | tray     | 1892 | unaware  | 1930 | van      | 1968 | vote    | 2006 | wide    | 2044 | youth   |
| 1551 | scrub    | 1589 | shoot    | 1627 | slender | 1665 | source   | 1703 | state    | 1741 | sunset   | 1779 | tattoo   | 1817 | toast    | 1855 | treat    | 1893 | uncle    | 1931 | vanish   | 1969 | voyage  | 2007 | width   | 2045 | zebra   |
| 1552 | sea      | 1590 | shop     | 1628 | slice   | 1666 | south    | 1704 | stay     | 1742 | super    | 1780 | taxi     | 1818 | tobacco  | 1856 | tree     | 1894 | uncover  | 1932 | vapor    | 1970 | wage    | 2008 | wife    | 2046 | zero    |
| 1553 | search   | 1591 | short    | 1629 | slide   | 1667 | space    | 1705 | steak    | 1743 | supply   | 1781 | teach    | 1819 | today    | 1857 | trend    | 1895 | under    | 1933 | various  | 1971 | wagon   | 2009 | wild    | 2047 | zone    |
| 1554 | season   | 1592 | shoulder | 1630 | slight  | 1668 | spare    | 1706 | steel    | 1744 | supreme  | 1782 | team     | 1820 | toddler  | 1858 | trial    | 1896 | undo     | 1934 | vast     | 1972 | wait    | 2010 | will    | 2048 | zoo     |
| 1555 | seat     | 1593 | shove    | 1631 | slim    | 1669 | spatial  | 1707 | stem     | 1745 | sure     | 1783 | tell     | 1821 | toe      | 1859 | tribe    | 1897 | unfair   | 1935 | vault    | 1973 | walk    | 2011 | win     |      |         |
| 1556 | second   | 1594 | shrimp   | 1632 | slogan  | 1670 | spawn    | 1708 | step     | 1746 | surface  | 1784 | ten      | 1822 | together | 1860 | trick    | 1898 | unfold   | 1936 | vehicle  | 1974 | wall    | 2012 | window  |      |         |
| 1557 | secret   | 1595 | shrug    | 1633 | slot    | 1671 | speak    | 1709 | stereo   | 1747 | surge    | 1785 | tenant   | 1823 | toilet   | 1861 | trigger  | 1899 | unhappy  | 1937 | velvet   | 1975 | walnut  | 2013 | wine    |      |         |