

Diceware

Background

Diceware is a method for creating passphrases, passwords, and other cryptographic variables using ordinary dice as a hardware random number generator. [\[DICE\]](#) In this assignment you will design and implement a password generator using the diceware method.

Task

In Java, implement the provided interface, **DicewareInterface.java**. Details for implementation are provided as javadoc comments in the file. This file specifies the use of the Electronic Frontier Foundation cryptographic word list file. [\[EFFWordList\]](#)

Write a **main** function to generate and print passwords/passphrases (one per line) of minimum length ranging from 1 to 25. Use '@' as the separator character. Your output should look similar to the following:

```
inlay
free
hinge
genre
harem
pie@raul
tiber@veery
atop@down
roof@fray
hookup@swarm
wee@caine@nut
mali@nx@braid
elgin@klm@bring
admix@buret@shine
jason@2001@tried
terse@duty@randy
bcd@hun@loren@hamal
tom@jan@94th@mulct
cohn@append@gc@2020
yyy@monic@melon@aloft
morel@pal@prow@ionic
gaul@genie@marin@focus
ap@acrid@wispy@truth@mh
we'll@hadron@mealy@circa
lobo@gyro@mad@knew@aqua@feel
```

Note that the passwords shown above are only examples and are not the expected values.

Deliverables

1. Source code file(s)
2. Report
 - a. Description of degree of success and any difficulties you experienced
 - b. Screen shot of results from running the program