Ray Huang (905413835)

Professor Smallberg

Comp Sci 31 Lec 1 Discussion 1A

November 18, 2019

Assignment 5 Report

Obstacles:

* Misusing 2D array, calling the whole list as a 1D array -> error
  + Similar to comparing string with character
* Forgot cin.ignore -> automatic skips the input line for cin.getline because of the previous cin << *int*;
* Finding the method to get the correct number of bees – make sure it do not count twice if there are multiple characters from the input that correlate with the mysterious word

Pseudo Code:

6 functions

* main
* play a round
* not 4-6 lowercase characters
* not valid
* find flower
* find bee
* not duplicated bee

In main:

Check number of words (make sure it is more than 0)

Start the round – print out all the round and get the number of round from the input

Make sure the number of rounds is positive (>0)

for loop (repeat # of rounds times)

* Create int variables to keep track of total number of trials and the max and min
  + Kept track by the output of playOneRound, which returns an int of trials
* Go into playOneRound
  + Make sure the random char[] is within the max (nWords)
  + Check if the input is 4-6 lowercase characters and is valid (in the total array)
  + Calculate flowers and bees if the guess is not the actual mysterious word
  + Print out the result
* After the correct word is guessed from the playOneRound function, the main function continues
  + Update the max and min
  + Set to 2 decimal places
  + Print the average number of trials