COS214-1-Spring 2019 - CAS-Computer Architecture (COS2141201951)

HW 19: Hangman with File I/O

HW 19: Hangman with file I/O (Total = 20 points)

For this homework, you will be adding FIle I/O onto HW 18. You will be making two changes:

1. Prompt the user to enter the number of times to play the game
2. Pass in a string corresponding to a file name and an integer corresponding to the number of word to guess

Here are the details:

1. Modify the main method header to be: `int main(int argc, char *argv[])`
    a. argc corresponds to the number of arguments
    b. argv[1] corresponds to the number of words in the input file: Call this numWords
    c. argv[2] is the name of the input file
2. Prompt the user to enter in the number of times they want to play the game
3. For each iteration, do the following:
    a. Prompt the user to enter a random number between 1 and numWords
    b. Pass that number and the name of the input file into a initializeHangmanFile method as described below
    c. For that Hangman, play the game as described in HW 18
4. Details on the input file: The textfile is in the format of numWord rows of `lengthofword word` . For example, if the input file had three words and is called InputFile.txt, you would call it by saying: `./a.out 3 InputFile.txt` and the textfile would look like this:

```
5 QUEUE
8 RESERVED
3 DOG
```

5. You will be creating a new method to construct a Hangman object called initializeHangmanFile
    a. It takes in a word number and the name of the textfile
    b. If then finds that word in the textfile and uses that to create a Hangman object

c. Return a pointer to the new object

Sample output

```
[thodeb@wiebe2 hw19]$ ./a.out 3 InputFile.txt
How many times would you like to play? 2
**********ROUND: 1*************
Enter a number between 1 and 2: 2
Word: _ _ _ _ _ _ _ _
Letters guessed:
Score: 10
Enter your guess: R
Word: R _ _ _ R _ _ _
Letters guessed: R
Score: 10
Enter your guess: E
Word: R E _ E R _ E _
Letters guessed: E R
Score: 10
Enter your guess: S
Word: R E S E R _ E _
Letters guessed: E R S
Score: 10
Enter your guess: V
Word: R E S E R V E _
Letters guessed: E R S V
Score: 10
Enter your guess: D
You won with score: 10
**********ROUND: 2*************
Enter a number between 1 and 2: 1
Word: _ _ _ _ _
Letters guessed:
Score: 10
Enter your guess: E
Word: _ _ E _ E
Letters guessed: E
Score: 10
Enter your guess: U
Word: _ U E U E
Letters guessed: E U
Score: 10
Enter your guess: Q
You won with score: 10
[thodeb@wiebe2 hw19]$
```

Other requirements

1. All methods must have a comment with a description
2. All dynamic objects that must be freed must be freed
3. Submit a .zip file with all the necessary .h and .cpp files via Moodle

InputFIle.txt

Submission status

Attempt number	This is attempt 1.
Submission status	No attempt
Grading status	Not graded
Due date	Friday, May 17, 2019, 4:00 PM
Time remaining	3 days 3 hours
Last modified	-
Submission comments	Comments (0)

Add submission

Make changes to your submission

◄ 05/13/19: File I/O in C

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