Word-Finder

Edwin Kofler



Utility Function

Find words that relate to an inputted string

Variants

- [Less]: Find words that contain only the characters of the inputted string Ex. 'apple' -> ['app', 'pal']
- [Equal]: Find words that contain the exact same characters as the inputted string.Ex. 'apple' -> ['appel']

Modify Found Words

[wordKeep]

Keep only words that exactly contain a user-inputed string

Ex. [rings, rinse, risen, rises, rites]

wordKeep: 'se'

Result: [rings, rites]

[wordRemove]

Remove all words that exactly contain a user-inputted string

Ex. [rings, rinse, risen, rises, rites]

wordKeep: 'se'

Result: [rinse, risen, rises]

Sort

- (Length): Length
- (wwfScore): Words with Friends Word Value
- (ScrabbleScore): Scrabble Word Value



Game Function

Guess words that relate to an inputted string

Game

- Up to four players; name each player by his or her initial
- Assuming 'j' is a valid initial and 'lorem' is the word to be guessed, enter input as such: 'lorem-j'.
 - Ex. Input: 'bkaer'; playing on 'less' setting (aka Scrabble) 'baker-e', 'rake-e', 'bake-e'
- View game statistics



Notes

3

1,420

Lines of code over 7 classes

How can the program be improved?

General Sorting

Rather than use bubble sort, (switching adjacent items), could have used merge sort, a more efficient method (worst case O(n*log(n)) rather than O(n²))

Sorting wwfScore / ScrabbleScore

Currently, program calculates words with friends and scrabble score during each iteration of merge sort. Change this by calculating each word value only once.



Demo