

Programming Assignment 4

Two Words

EC327 Spring 2016

Due Date: March 18th, 11pm

Submission link: [Assignment Three File Request](#)

Summary: write a C++14 program to find all two word combinations from a word list

Details:

The program is designed to be a “helper/solver” for the app “Just 2 Words”.

The program functions as follows: given a wordlist, a collection of letters, and the length of one of the words, find all possible two words “answers” that use exactly the collection of letters given.

The default word list is “wordlist.txt” (provided) and the default collection of letters aadekmmnortww. The default word length is 7.

The “wordlist.txt” word list is also provided here in this directory.

Note: the program either uses all the defaults or all three parameters must be specified.

Here are some examples of correct outputs:

```
> twowords
awkward moment
> ./twowords wordlist.txt testifythesis 6
feisty theists
heists testify
shiest testify
thesis testify
> ./twowords wordlist.txt organpizza 5
argon pizza
groan pizza
orang pizza
organ pizza
pirog zanza
```

Other specifications:

- if the parameter list is not correct, the program should exit silently (and output nothing)
- each solution should be printed on a separate line, with the word specified printed first.
- the output should be in alphabetical order (a to z)
- if the two words are the same length, they should appear in dictionary order on each line
- the output should not have any repeats (this is important if both lengths are the same)
- if there is no match for any reason, the program should exit silently (and output nothing)
- you may use any libraries in the standard library.
- try to make your program no more than twice as slow as mine.