

<p style="text-align: center;"><b>COSC 1337 – Fundamentals of Programming</b> <b>Exam 3 – Lab Section (40 Points)</b></p>
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(40 points)

Make sure that we follow all the programming styles (**20% of the grade**) that we have learned in class:

- proper variable names
- use of functions
- readability
- comments/documentation

### Project Statement

If you've ever taken a foreign language class, you may have studied for tests by creating flash cards to memorize how a given word in a particular language translates into a different language. For this project, you are to create a vocabulary quiz program that requests the name of a vocabulary file in the current directory, quizzes the user on a subset of the words in the vocabulary file, and then gives the user the option to write out any missed words to a new vocabulary file. While the word lists that we are using are English to Spanish, the program could easily be applied more generally to other languages, giving you a practical replacement to flash cards!

### Program Outline

1. Store the contents of the vocabulary file into a class
2. Print the number of English words in the file.
3. Prompt the user for the number of words he or she would like to be quizzed on.  
Error check to make sure the number is valid.
4. At the end of the quiz, the user will see all the questions that are answered

### Program Requirements

Your project will meet the following requirements:

1. You must do some error checking for the project. Specifically, you should check if there are any available word lists in the directory.
2. When the user is asked how many words to be quizzed on, your program should make sure that it is within the possible range of numbers (i.e. between one and the number of English words in the dictionary).
3. Use an English-Spanish dictionary to create the data file.
4. Use a class to store the dictionary.
5. The maximum words in the dictionary will be 100.
6. Use a class to store student quiz answers

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**Example Output Note:** User input is in **bold**.

Welcome to the Ally Baba Vocabulary quiz program.

Please enter your name: **AllyBaba**

Maximum available words: 10 words.

How many words would you like to be quizzed on? **3**

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**Quiz Time**

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Question 1

English word: to study

Enter 1 equivalent Spanish word(s).

Word [1]: **estudiar**

Correct!

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Question 2

English word: to search

Enter 2 equivalent Spanish word(s).

Word [1]: **buscar**

Word [2]: **mirar**

Correct!

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Question 3

English word: to be

Enter 2 equivalent Spanish word(s).

Word [1]: **ser**

Word [2]: **???**

Incorrect.

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Grade Time

Name: AllyBaba

Grade: 67% (Failed – You have scored below 80%)

Enter an output file: **wrong.txt**