

Mini Project 1: Pig Latin Translator

Collaboration Policy: This assignment must be completed individually. You may discuss high-level ideas with other students, but you should not share code.

Grading

- 30 points basic translation (15 points each way)
- 15 points code readability and organization
- 10 points for presentation and error handling
- 15 points for the optional bonus

Description

The goal of this homework assignment is to create a pig latin translator.

To translate a word to pig latin, you do the following:

- If the word starts with a vowel or the letter y, you add the letters 'way' to the end of the word.
- If the word starts with any other letter, then move all of the letters up to the first vowel to the end of the word and add 'ay' at the end.

To make reverse translation possible, we will add an ' before the new or moved letters.

Examples:

- eggs become eggs'ay
- yay becomes yay'ay
- word becomes ord'way
- the becomes e'thay

We will translate a sentence to or from pig latin. First we will ask the user which direction to translate, to pig latin (to) or from Pig Latin back to English (from). Then we will have them enter their sentence. Remove any punctuation at the end of words, unless you are doing the bonus. If they ask us to translate from Pig Latin to English and there is no ' in the word, then we must tell them that that we cannot translate their sentence.

Example: Mary had a little lamb?! <=> ary'May ad'hay ittle'lay amb'lay

You can identify a letter as a capital if it has a unicode value between 65 and 90 (inclusive). A lowercase letter has a unicode value between 97 and 122 (inclusive). Assume any other value is punctuation for simplicity.

Starting Materials

You should start from a blank SNAP! project.

Bonus

If you want credit for the bonus, you must add a note to the dropbox indicating that you completed it.

- (10 pts) Maintain the correct capitalization of words in the sentences. If the first letter of the word was capitalized before moving letters, ensure that only the first letter is capitalized after translation.
- (5 pts) Do not remove the punctuation characters, maintain them correctly at the end of each word. This must allow for one or more punctuation characters.

Example: Mary had a little lamb?! <=> Ary'may ad'hay ittle'lay amb'lay?!