1. In 1939 Ernest Vincent Wright published a 50,000 word novel called Gadsby that does not contain the letter “e.” Since ‘e’ is the most common letter in English, that’s not easy to do.

In fact, it is difficult to construct a solitary thought without using that most common symbol. It is slow going at first, but with caution and hours of training you can gradually gain facility.

All right, I’ll stop now.

Write a function called has\_no\_e that returns True if the given word doesn’t have the letter ‘e’ in it.

1. Write a program that uses your has\_no\_e function to print only the words in words.txt that have no e. You should also compute and print the percentage of words in the file that have no ‘e’.
2. Write a function named avoids that takes a word and a string of forbidden letters, and that returns True if the word doesn’t use any of the forbidden letters.
3. Write a program to prompt the user to enter a string of forbidden letters and print the number of words in words.txtthat do not contain any of them.

Fun challenge: can you find a combination of 5 forbidden letters that excludes the smallest number of words?

1. Write a function named uses\_only that takes a word and a string of letters, and that returns True if the word contains only letters in the list.

Fun challenge: can you make a sentence using only the letters acefhlo? Other than “Hoe alfalfa?”

1. Write a function named uses\_all that takes a word and a string of required letters, and that returns True if the word uses all the required letters at least once. How many words are there that use all the vowels aeiou? How aboutaeiouy?
2. Write a function called is\_abecedarian that returns True if the letters in a word appear in alphabetical order (double letters are ok). How many abecedarian words are there?