

## Lab 1: Chars

Exploring how to reuse methods while learning about chars.

## **Exercises**

- 1) Complete the method scanString (String instructions). The parameter instructions is the user's prompt. Print it before scanning an entire line. Then return the user's input.
- 2) Complete the method is Vowel (char letter). This should return true if the parameter letter is a vowel, and false otherwise. Don't count y as a vowel.
- 3) Complete the method numVowels (String str). It should return the number of vowels in the parameter str. **DO NOT** rewrite the code from #2. Rather, call isVowel() for each letter you need to check.
- 4) Complete the method compareVowels (String str1, String str2). Return 1 if str1 has more vowels, 2 if str2 has more vowels, and 0 if they have the same number of vowels. DO NOT rewrite the code from #2 or #3. Rather, call numVowels () for each string and compare them.
- 5) Complete the method rot13 (String str). A ROT13 cipher is one where each letter in the message is rotated 13 letters up. If it goes beyond z, the letter rotates to an 'a' and keeps counting. Example: a + 13 = n, z + 13 = m, x + 13 = k. Rotate the parameter str and return the coded message. Note, the parameter will be all lowercase letters.

## Example

message: it's a me mario
code: vg'f n zr znevb



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