Exercise Set 6: Manipulating Strings

Solved problems:

Exercise 1.
Ask the user to type in a string. Print the string backwards.

Exercise 2.
Write a function that will show a given substring of the input String.

Exercise 3.
Write a function that will count the number of letters and the number of digits in
the given input String.
Use helper functions isLetter and isDigit.

Exercise 4.
Write a function that will print the first word of the given input String.

Exercise 5.
Write a function that will print each word of the input String on a new line.

Exercise 6.
Write a function that will count the number of occurrences of a given character in
a given string. Test this function.

Exercise 7
Write a function that will convert all letters in the input String first to lower case,
then to upper case and print both versions.

Exercise 9.
Write a function the will print all three letter words in the given input String and
count them.

Exercise 10.
Palindrome is a word that is the same when read backwards. Some examples are:
ewe, anna, hannah, lonelytylenol.
Write a program that will read a string and print appropriately "This is a
palindrome" or "This is not a palindrome".
Make sure the function is not case sensitive, and also that it ignores blanks and
punctuation between words. In this case, the sentence "A man, a plan, a canal,
Panama." will be certified as a palindrome.
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Additional unsolved problems:
Exercise 11.
Ask the user to type in a string. Print the first letter of every word in this string.
(Try it with the sentence: Your eyes seem so incredibly red.)

Exercise 7.
Write a program that will count the words in a string.

Exercise 8.
Write a program that will compute the average length of a word.

Exercise 9.
Write a program that will replace every occurrence of a space with a *.

Exercise 10.
Write a program that will replace every letter of a string with its successor.