Assignment 5 - Strings

- 1. Take as input S, a string. Write a function that returns true if the string is a palindrome and false otherwise. Print the value returned.
- 2. Take as input S, a string. Write a function that returns the count of substrings of this string which are palindromes. Print the value returned.
- 3. Take as input S, a string. Write a function that toggles the case of all characters in the string. Print the value returned.
- 4. Take as input S, a string. Write a function that replaces every odd character with the character having just higher ascii code and every even character with the character having just lower ascii code. Print the value returned.
- 5. Take as input S, a string. Write a function that inserts between each pair of characters the difference between their ascii codes. Print the value returned.
- 6. Take as input S, a string. Write a function that prints all its subsequences.
- 7. Take as input S, a string. Write a function that prints all its permutations.
- 8. Take as input S, a string. Write a function that returns the character with maximum frequency. Print the value returned.
- 9. Take as input S, a string. Write a function that removes all consecutive duplicates. Print the value returned. E.g. for input "aabccba" print "abcba".
- 10. Take as input S, a string. Write a function that does basic string compression. Print the value returned. E.g. for input "aaabbccds" print out a3b2c2ds.



