String Challenges

Challenge 1

<u>UpperCase-LowerCase interconversion</u>

Given a string s with both uppercase and lowercase latin characters ('a' - 'z'). Your task is convert whole string into

- 1. Lower Case
- 2. Upper Case

Base idea: 'a' - 'A' = 32

1. Lowercase to UpperCase

Approach

- 1. Iterate over the string s and if s[i] is a lower case character, then update s[i] = 32
- 2. <u>UpperCase to LowerCase</u>

Approach

1. Iterate over the string s and if s[i] is a upper case character, then update s[i] +=32



Code:

Challenge 2

Form the biggest number

Given a string of integers, our task is to form the biggest number out of those numbers in the string.

Approach:

Sort the string in descending order using inbuilt sort function.

Code

Challenge 3

Max Frequency

Given a string s of latin characters, your task is to output the character which has maximum frequency.

Approach:

Maintain frequency of elements in a separate array and iterate over the array and find the maximum frequency character.

Code



Challenge 4 (Additional Question)

Compression of strings

Given a string s, your task is to remove the repeating consecutive characters.

Approach: Create an answer string and iterate in the string from i=1 and check if it is equal to the previous character. Two cases arise

- 1. s[i] = s[i-1] then do not push back the ith character to the answer string.
- 2. $s[i] != s[i-1] then push_back the ith character to the answer string.$

Code

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