TCS_Coding_Practice_Day8

1. Given a string, find the third most frequent character in it. If two character having the same frequency then print any of them. Take input from STDIN.

 Examples:
 Input: str = "aacbabacba";
 Output: 'c'

2. Find the GCD and LCM of two numbers. Take input from command line.

 Example:
 Input:
   30
   40
 Output:
   10
   120
 Test Cases:
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 1. VALID INPUT:
   a) Only two arguments will be given as input.
 2. INVALID inputs:
   a) No argument
   b) One argument
   c) More than two arguments.
   d) Characters other than digit
 3. You should generate output as follows:
   a) Print to the STDOUT without any additional text.
   b) If error print 'ERROR' to the STDOUT without any additional text.

3. Check whether a given string Palindrome or not. Take input from command line.

 Test Cases:
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 1. VALID INPUT:
   a) Only one string will be given as input through command line argument.
 2. INVALID INPUT:
   a) No command line argument.
   b) More than one command line argument
 3. OUTPUT:
   a) Write "YES" to stdout without any other additional text if string is palindrome.
   b) Write "NO" to stdout without any other additional text if string is not palindrome.
   c) In case of invalid input print ERROR to the STDOUT without any other additional text.

4. Define a function to input a list of names and store them in an array and then perform bubble sort on the name list. Take input from command line argument.

 Example:
 Input:
 Babar
 Akbar

Nayan
Sayak
Ram
Amit

Output:
Akbar
Amit
Babar
Nayan
Ram
Sayak

5. Finding out whether a substring is present in a given string or not. Take input from command line argument.

    Example:

    Input:

        Original string: Abcdabxabxaycdy

        Substring: abxay

    Output: Present

    Input:

        Original string: Abcdabxabxaycdy

        Substring: abxayd

    Output: Not Present