1823

031



# STUDENT REPORT

CEO

# **DETAILS**

### Name

VISHNUTEJA M

### **Roll Number**

KUB23ECE037

**Title** 

MAGIC STRING

Eva has a string S containing lowercase English letters. She wants to transform this string into a Magic String, where all the characters in the string are the same. To do so, she can replace any letter in the string with another letter present in that string.

Your task is to help Eva find and return an integer value, representing the minimum number of steps required to form a Magic String. Return 0, if S is already a Magic String.

### **Input Specification:**

**input1**: A string S, containing lowercase English letters.

## **Output Specification:**

Return an integer value, representing the minimum number of steps required to form a Magic String. Return 0, if S is already a Magic String.

### Sample Input:

aaabbbccdddd

### **Sample Output:**

KNB53ECE031

# KN853FCF031 KN853FCF031 KN853FCF031

KUB23FCF031 KUB23F

FIBE

```
KUB23ECE037-Magic String
    def min_steps_to_magic_string(s):
        # Count frequencies of each character
        frequency = {}
        for char in s:
            if char in frequency:
                frequency[char] += 1
            else:
                frequency[char] = 1
        # Find the maximum frequency
        max_freq = max(frequency.values())
        # Calculate the minimum steps
        min_steps = len(s) - max_freq
        return min_steps
    # Input reading
    s = input().strip() # Read the input string
    # Calculate and print the result
    result = min_steps_to_magic_string(s)
    print(result)
RESULT
  5 / 5 Test Cases Passed | 100 %
```

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