

# STUDENT REPORT

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# **DETAILS**

### Name

M ADITYA

### **Roll Number**

TEMPBTech-ECE021

# **EXPERIMENT**

### **Title**

MAGIC STRING

### Description

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.

TEMP Brech. ECEO 21 TEMP Brech. ECEO 21 TEMP Brech.

### Sample Input:

aaabbbccdddd

### **Sample Output:**

8

TEMPBTECH, EC

# ECHO21 LEMPBIECH, ECHO21 LEMPBIECH, ECHO21 TEMP BTech. ECEO 21 TEMP BTech. EC

```
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
```

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5 / 5 Test Cases Passed | 100 %

https://practice.reinprep.com/student/get-report/fdba6c25-7c9f-11ef-ae9a-0e411ed3c76b