

4033

# STUDENT REPORT

FIBL

# DETAILS

Name

D M ISAQ

Roll Number

KUB23CSE033

### **EXPERIMEN**

**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.

KUB23C5E033 KUB23C5E035 KUB23C5E033 KUB23C5E035 KUB23C

KNB23C5E033 KNB23C5E033 KNB23C5E033 KNB23C5E033

. B23C5E033 KUB23C5E033 KUB23C5E035 KUB23C5E035 KUB23C5E035 KUB23C5E035 KUB23C5E035 KUB23C5E033 KUB23C5E035 KUB23C

23 ROW HARRELE BROWN HARRELE B

Sample Input:

aaabbbccdddd

**Sample Output:** 

8

KUB23C5E033 KUB23C5E033

1823

```
KUB23CSE033-Magic String
    def min_steps_to_magic_string(S):
        from collections import Counter
        # Step 1: Count character frequencies
        frequency = Counter(S)
        # Step 2: Get the highest frequency
        max_frequency = max(frequency.values())
        # Step 3: Calculate the number of steps needed
        steps = len(S) - max_frequency
        return steps
    # Sample Input
    S = input()
    # Output
    result = min_steps_to_magic_string(S)
    print(result) # Output: 2
RESULT
 5 / 5 Test Cases Passed | 100 %
```