



STUDENT REPORT

DETAILS

Name

B SHRINIVAS

Roll Number

KUB23CSE018

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.

Sample Input:

aaabbbccddddd

Sample Output:

8

Source Code:

```
def min_steps_to_magic_string(S):  
    from collections import Counter  
  
    # Count the frequency of each character in the string  
    char_count = Counter(S)  
  
    # Get the maximum frequency of any character  
    max_frequency = max(char_count.values())  
  
    # Total characters minus the number of characters that are already the same  
    min_steps = len(S) - max_frequency  
  
    return min_steps  
  
# Example usage  
S = input().strip()  
result = min_steps_to_magic_string(S)  
print(result)
```

RESULT

5 / 5 Test Cases Passed | 100 %