



STUDENT REPORT

DETAILS

Name

UMME SUMMAIYA

Roll Number

KUB23CSE150

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_step_to_magic_string(S):  
    if len(set(S)) == 1:  
        return 0  
  
    freq = counter(S)  
  
    max_freq = max(freq.values())  
  
    return len(S) - max_freq  
  
S = input()  
  
result = min_step_to_magic_string(S)  
print(result)
```

RESULT

KUB

SE15U

B23C

50 KU
SE13

CSE1
B23

UB22
50 K

150 K
3C