TIB

## STUDENT REPORT

408.

7853

SERB KURDA FALOR BOKURDA FALOR

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## DETAILS

Name |

MOHAMMED FURKHAN

Roll Number

KUB23CSE085

**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.

KINB23CSE085 KUB23CSE085 KUB25

Sample Input:

aaabbbccdddd

**Sample Output:** 

8

KUB23C5E085 KUB25C5E085 KUB25C

```
from collections import Counter
    def min_steps_to_magic_string(S):
        if len(S) == 0: # Edge case for empty string
            return 0
        # Count the frequency of each character
        frequency = Counter(S)
        # Find the maximum frequency
        max_freq = max(frequency.values())
        # Calculate the minimum steps required
        min_steps = len(S) - max_freq
        return min_steps
    # Example usage
    S = "aaabbbccdddd"
    result = min_steps_to_magic_string(S)
    print(result) # Output: 8
RESULT
  1 / 5 Test Cases Passed | 20 %
```