



# STUDENT REPORT

## DETAILS

### Name

SHAIK MOHAMMED SOHAIL

### Roll Number

KUB23ECE029

## 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):
    if len(set(S)) == 1:
        return 0

    freq = Counter(S)

    max_freq = max(freq.values())

    return len(S) - max_freq

S = input()

result = min_steps_to_magic_string(S)
print(result)
```

## RESULT

KUB

CE02

B23E

29 KU  
CE02

ECE0  
B23E

UB23  
29 KU

029 KU  
23E