



# STUDENT REPORT

## DETAILS

Name

AMRUTHA HIREGOUDRU

Roll Number

3BR23AI010

## 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:**

```
from collections import Counter
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

3BR

1010

23A10

1BR23  
1103

1038  
2A10

41010  
RR23

23A10  
02