

STUDENT REPORT

4505

DETAILS

Name

MADHU.K

Roll Number

3BR23EE057

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.

38R23EE0513BR23EE0513BR23EE051

3BR23EE051 3BR23EE051 3BR23EE051 3BR23EE

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.

7.R.2.3.ELO51, 3.B.R.2.3.ELO51, 3.B.R.2.2.ELO51, 3.B.R.2.

Sample Input:

aaabbbccdddd

Sample Output:

8

3BR23EE051 3BR23EE051 3BR23EE051 Source Code:

```
from collections import Counter
def min_steps_to_magic_string(S):
    if not S: # Handle empty string case
        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
    return len(S) - max_freq
# Example usage
if __name__ == "__main__":
    import sys
    S = sys.stdin.readline().strip() # Read the input string S
    result = min_steps_to_magic_string(S)
    print(result)
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```

5 / 5 Test Cases Passed | 100 %

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