



# STUDENT REPORT

## DETAILS

Name

RISHI U

Roll Number

3BR24AI403T

## EXPERIMENT

Title

SPECIAL STRING

Description

Alice has a string A consisting of lowercase English letters. Her friend gives her another string S and asks her to modify string A and replace its characters with the characters present in string S.

But, to achieve the above task, Alice must follow the below steps:

1. Choose a character from string S that has the minimum ASCII distance from the  $i$ th character in string A

Replace the  $i$ th character in string A with the chosen character in string S

Your task is to find and return an integer value, representing minimum total ASCII distance that is required to modify string A to the characters in string S. Return 0, if all the characters in string S are already present in string A

**Sample Input:**

abcd

xyz

**Sample Output:**

86

**Source Code:**

```
A = input()
S = input()
sum = 0

for i in A:
    min_dist = float('inf')
    for j in S:
        dist = abs(ord(i) - ord(j))
        min_dist = min(min_dist, dist)
    sum += min_dist

print(sum)
```

## RESULT

3BR

14031

224A1

T 3BR  
T 3BR

14031  
14031

R24A1  
R24A1

T 3BR  
T 3BR