STUDENT REPORT

DETAILS

Name

UDUDALA NEELA

Roll Number

3BR23AI170

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 ith character in string A

Replace the ith 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:

```
def min_ascii_distance(A,S):
    if set(S).issubset(set(A)):
        return 0
    total_distance=0
    for char_a in A:
        min_distance=float("inf")
        for char_s in S:
            distance = abs(ord(char_a)-ord(char_s))
            if distance < min_distance:
                min_distance = distance
        total_distance +=min_distance
    return total_distance
if __name__ =="__main__":
    A=input().strip()
    S=input().strip()
    print(min_ascii_distance(A,S))
```

RESULT

5 / 5 Test Cases Passed | 100 %