| STUDENT REPORT A 2 BILLOGO   | ( |
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| DETAILS ON TO THE ARCADAT DEPARTMENT OF THE CADAT DEPARTMENT OF THE DEPARTMENT OF THE CADAT DEPARTMENT | i |
| KONDAPALLI SANDEEP  Roll Number  |   |
| 22BI24EC404-T  Title  Description  Paratical And Andrew An |   |
| 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  |   |
| Sample Output:   |   |
| Source Codes:  Charles 1200 12  |   |

```
def min_ascii_distance(A, S):
               total_distance = 0
               found_all = True
               for char_a in A:
                   \mbox{\#} Find the minimum ASCII distance character in S
                   min_distance = float('inf')
                   for char_s in S:
                       distance = abs(ord(char_a) - ord(char_s))
                       if distance < min_distance:</pre>
                           min_distance = distance
                   # If the character from A is not in S, we add the minimum distance
                   if min_distance != 0:
                       found_all = False
                       total_distance += min_distance
               return total_distance if not found_all else 0
           # Sample Input
           A = input()
           S = input()
           # Finding the minimum total ASCII distance
           result = min_ascii_distance(A, S)
           print(result) # Output: 86
RESULT
         5 / 5 Test Cases Passed | 100 %
           VEC Y,
```