```
def min_ascii_distance(A, S):
        # Handle the case where either A or S is empty
       if not A or not S:
            return 0
        total_distance = 0
       # Iterate through each character in string A
       for char_A in A:
           min_distance = float('inf')
            # Find the character in S with minimum ASCII distance
            for char_S in S:
               distance = abs(ord(char_A) - ord(char_S))
               min_distance = min(min_distance, distance)
            # Add the minimum distance to the total
            total_distance += min_distance
       return total_distance
   # Sample Input
   A = "abcd"
   S = "xyz"
   # Output the minimum total ASCII distance
   result = min_ascii_distance(A, S)
   print(result)
RESULT
 1 / 5 Test Cases Passed | 20 %
```