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78.Exhaustive Search
AIM: To find the closest combination by using exhaustive search algorithm
PROGRAM:
def exhaustive_search(target, numbers):
  closest_sum = float('inf')
  closest_combination = None
  for i in range(len(numbers)):
    for j in range(i+1, len(numbers)):
      current_sum = numbers[i] + numbers[j]
      if abs(target - current_sum) < abs(target - closest_sum):</pre>
        closest_sum = current_sum
        closest_combination = (numbers[i], numbers[j])
  return closest_combination
target = 10
numbers = [1, 3, 6, 7, 9]
closest_combination = exhaustive_search(target, numbers)
print("Closest combination to the target:", closest_combination)
         Closest combination to the target: (1, 9)
OUTPUT:
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TIME COMPLEXITY: O(n^2)