```
DETAILS
    VIKAS
  Roll Number
    KUB23CSE158
EXPERIMENT
Title
  TARGET SUM
    You are given a list of integers, and your task is to write a function that finds the two numbers in the list that add up to a specific target sum. You need to
    return the indices of these two numbers.
    Write a function that takes a list of Integers and a target sum as input and returns a list of two indices (0-based) of the numbers that add up to the target
    sum. Assume that there is exactly one solution, and you cannot use the same element twice
    Sample Input:
    2 7 11 15
    Sample Output:
    [0, 1]
  Source Code:
    def two_sum(nums, target):
         num_to_index = {} # Dictionary to hold number and its index
         for index, num in enumerate(nums):
              complement = target - num # Calculate the complement
              # Check if the complement is in the dictionary
              if complement in num_to_index:
                  return [num_to_index[complement], index] # Return the indices
              # Store the number and its index in the dictionary
              num_to_index[num] = index
    # Example usage
    if __name__ == "__main__":
         import sys
         nums = list(map(int, sys.stdin.readline().strip().split())) # Read the list of integers
         target = int(sys.stdin.readline().strip()) # Read the target sum
         result = two_sum(nums, target)
         print(result)
```

Logo

RESULT

5/5 Test Cases Passed | 100 %

LIBERT CASES PASSED | 100 %

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