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## STUDENT REPORT

### Name

**D KARTHIK** 

### **Roll Number**

3BR23AI034

### **EXPERIMENT**

### **Title**

# TARGET SUM Description

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.

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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

9

### **Sample Output:**

[0, 1]

### Source Code:

```
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def two_sum(nums, target):
  num_to_index = {}
  for i, num in enumerate(nums):
    complement = target - num
    if complement in num_to_index:
      return [num_to_index[complement], i]
    num_to_index[num] = i
  raise ValueError("No two numbers add up to the target sum.")
nums = list(map(int,input().split()))
target = int(input())
indices = two_sum(nums, target)
print(indices)
```

### RESULT

5 / 5 Test Cases Passed | 100 %

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