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## STUDENT REPORT

### **DETAILS**

### Name

P SANIYA

### **Roll Number**

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### 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

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### **Sample Output:**

[0, 1]

### Source Code:

```
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)
```

5 / 5 Test Cases Passed | 100 %