



# STUDENT REPORT

## DETAILS

### Name

Mohammed Aaqib R

### Roll Number

22BI24EE417-T

## 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.

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:

```
def find_two_sum_indices(nums, target):  
  
    num_indices = {}  
  
    for index, num in enumerate(nums):  
  
        complement = target - num  
  
        if complement in num_indices:  
  
            return [num_indices[complement], index]  
  
        num_indices[num] = index  
  
    return []  
  
import sys  
  
input = sys.stdin.read  
data = input().strip().splitlines()  
  
nums = list(map(int, data[0].split()))  
  
target = int(data[1])  
  
result = find_two_sum_indices(nums, target)  
print(result)
```

## RESULT

5 / 5 Test Cases Passed | 100 %