



STUDENT REPORT

DETAILS

Name

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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.

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 two_sum(nums, target):  
    index_map = {}  
  
    for i, num in enumerate(nums):  
        complement = target - num  
  
        if complement in index_map:  
            return [index_map[complement], i]  
  
        index_map[num] = i  
  
input_nums = [2, 7, 11, 15]  
target_sum = 9  
output = two_sum(input_nums, target_sum)  
print(output)
```

RESULT

2 / 5 Test Cases Passed | 40 %