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# STUDENT REPORT

## DETAILS

**Name**

PALAK YADAV

**Roll Number**

3BR23AI116

## 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 retun 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_indices(num, target):
    num_to_index = {}
    for i, num in enumerate(num):
        complete = target-num
        if complement in num_to_index:
            return [num_to_index[complement],i]
        num_to_index[num] = i
    return []
num = [2, 7, 11, 15]
target = 9
print(find_indices(num, target))
```

## RESULT

0 / 5 Test Cases Passed | 0 %