NPB)

PBIE

EMP



## STUDENT REPORT

# DÉTAILS

SIDIGONDE BHARATH KUMAR

#### Roll Number

TEMPBTech-ECE004

### **EXPERIMEN**

#### **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.

Sect

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 = {} # Dictionary to store number and its index
               for index, num in enumerate(nums):
                               complement = target - num # Calculate the complement
                               # Check if the complement exists in the dictionary
                               if complement in index_map:
                                               return [index_map[complement], index] # Return the indices
                               # Store the current number with its index
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20 NEWS 20 NEW
                               index_map[num] = index
                return [] # Return an empty list if no solution is found (should not happen)
# Input reading
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             × XIII
input_numbers = list(map(int, input().strip().split())) # Read list of integers
target_sum = int(input().strip()) # Read target sum
# Calculate and print the result
result = two_sum(input_numbers, target_sum)
print(result)
```

**RESULT** 

5 / 5 Test Cases Passed | 100 %

J / J Test Cases Fassed | 100 /

https://practice.reinprep.com/student/get-report/4aebd375-7bcb-11ef-ae9a-0e411ed3c76b