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Sko



STUDENT REPORT

DETAILS Nar

Roll Number

KUB23CSE036

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.

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):
    num_to_index = {} # Dictionary to hold number and its index
    for index, num in enumerate(nums):
        complement = target - num # Calculate the complement
        # Check if the complement is in the dictionary
        if complement in num_to_index:
            return [num_to_index[complement], index] # Return the indices
        # Store the number and its index in the dictionary
        num_to_index[num] = index
# Example usage
if __name__ == "__main__":
    import sys
    nums = list(map(int, sys.stdin.readline().strip().split())) # Read the list of integers
    target = int(sys.stdin.readline().strip()) # Read the target sum
    result = two_sum(nums, target)
    print(result)
```

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KUB23CSE036-Target sum

RESULT

5 / 5 Test Cases Passed | 100 %

LJB"

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30,030

5,0,5

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