DETAILS

Name

ANNAPURNA

Roll Number

KUB23CSE010

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): 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 <u>__</u>main__": if __name__ == " 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)

STUDENT REPORT

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