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STUDENT REPORT LUBY 25 LUBY 2	
Name Name Archogg Table 1923 Sections Andrope Chogg Branch Sections Andrope Chogg Section Sect	
Roll Number And Andrew	
Sect Toby Toby	
EXPERIMENT Title Title Description 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]	
Somple Output: [0, 1] *** ** ** ** ** ** ** ** ** ** ** **	
33 KUB ³ 26C 33 KUB ³ 26C 123 KUB	
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KUB 23ECEC 33 KUB 1 KUB 23ECEC 33 S	

```
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
           index_map[num] = index
       return [] # Return an empty list if no solution is found (should not happen)
   # Input reading
   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 %
```