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sandeepraikar

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Ice Cream Parlor

by dheeraj

Problem

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Sunny and Johnny together have M dollars they want to spend on ice cream. The parlor offers N flavors, and they want to choose two flavors so that they end up spending the whole amount.

You are given the cost of these flavors. The cost of the i^{th} flavor is denoted by c_i . You have to display the indices of the two flavors whose sum is M .

Input Format

The first line of the input contains T ; T test cases follow.

Each test case follows the format detailed below: The first line contains M . The second line contains N . The third line contains N space-separated integers denoting the price of each flavor. Here, the i^{th} integer denotes c_i .

Output Format

Output two integers, each of which is a valid index of a flavor. The lower index must be printed first. Indices are indexed from 1 to N .

Constraints

$$1 \leq T \leq 50$$

$$2 \leq M \leq 10000$$

$$2 \leq N \leq 10000$$

$$1 \leq c_i \leq 10000, \text{ where } i \in [1, N]$$

The prices of any two items may be the same and each test case has a unique solution.

Sample Input

```
2
4
5
1 4 5 3 2
4
4
2 2 4 3
```

Sample Output

```
1 4
1 2
```

Explanation

The sample input has two test cases.

For the 1st, the amount $M = 4$ and there are 5 flavors at the store. The flavors indexed at 1 and 4 sum up to 4.

For the 2nd test case, the amount $M = 4$ and the flavors indexed at 1 and 2 sum up to 4.

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Submissions: 20229

Max Score: 30

Difficulty: Easy

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Current Buffer (saved locally, editable)

Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11         Scanner read = new Scanner(System.in);
12         int t = read.nextInt();
13         for(int i=0;i<t;i++){
14             int m = read.nextInt();
15             int flavors = read.nextInt();
16             int[] cost = new int[flavors];
17             for(int j=0;j<flavors;j++){
18                 cost[j]=read.nextInt();
19             }
20             int temp=m;
21             for (int k = 0; k < flavors; k++) {
22                 for (int l = k; l < flavors; l++) {
23                     if (k == l)
24                         continue;
25                     else {
26                         if (cost[k] + cost[l] > temp)
27                             continue;
28                         else if (cost[k] + cost[l] == temp) {
29                             System.out.print((k+1) + " " + (l+1));
30                         }
31                     }
32                 }
33             }
34             System.out.println();
35         }
36     }
37 }
38
39 }
```

Line: 39 Col: 2

[Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code

Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #1

✓ Test Case #2

You've earned 30.00 points!

Next Challenge

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