Ice Cream Parlor

by dheeraj

Problem Submissions Leaderboard Discussions Topics

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

$1 \leq T \leq 50$
$2 \leq M \leq 10000$
$2 \leq N \leq 10000$
$1 \leq c_i \leq 10000, where\ i \in [1, N]$
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.

Related Topics
Binary Search

Submissions: 20229
Max Score: 30
Difficulty: Easy

More

Current Buffer (saved locally, editable) Java 7

```java
import java.io.*;
import java.util.*;
import java.text.*;
import java.math.*;
import java.util.regex.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
        Scanner read = new Scanner(System.in);
        int t = read.nextInt();
        for(int i=0;i<t;i++){
            int m = read.nextInt();
            int flavors = read.nextInt();
            int[] cost = new int[flavors];
            for(int j=0;j<flavors;j++){
                cost[j]=read.nextInt();
            }
            int temp=m;
            for (int k = 0; k < flavors; k++) {
                for (int l = k; l < flavors; l++) {
                    if (k == l)
                        continue;
                    else {
                        if (cost[k] + cost[l] > temp)
                            continue;
                        else if (cost[k] + cost[l] == temp) {
                            System.out.print((k+1) + " " + (l+1));
                        }
                    }
                }

            }

            System.out.println();
        }
    }
}
```

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