**Little Chef and Sums**Problem Code: **CHEFSUM**

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Our little chef is fond of doing additions/sums in his free time. Today, he has an array **A**consisting of **N** positive integers and he will compute prefix and suffix sums over this array.

He first defines two functions **prefixSum(i)** and **suffixSum(i)** for the array as follows. The function **prefixSum(i)** denotes the sum of first **i** numbers of the array. Similarly, he defines **suffixSum(i)** as the sum of last **N - i + 1** numbers of the array.

Little Chef is interested in finding the minimum index **i** for which the value **prefixSum(i) + suffixSum(i)** is the minimum. In other words, first you should minimize the value of **prefixSum(i) + suffixSum(i)**, and then find the least index **i** for which this value is attained.

Since, he is very busy preparing the dishes for the guests, can you help him solve this problem?

**Input**

The first line of the input contains an integer **T** denoting the number of test cases.

The first line of each test case contains a single integer **N** denoting the number of integers in the array **A**.

The second line contains **N** space-separated integers **A1**, **A2**, ..., **AN** denoting the array **A**.

**Output**

For each test case, output a single line containing the answer.

**Constraints**

* **1** ≤ **T** ≤ **10**
* **1** ≤ **N, A[i]** ≤ **105**

**Subtasks**

* **Subtask #1 : (20 points) 1 ≤ N ≤ 100**
* **Subtask #2 : (80 points)**Original constraints

**Example**

**Input:**

2

3

1 2 3

4

2 1 3 1

**Output:**

1

2

**Explanation**

**Example case 1.** Let's calculate prefixSum(i) + suffixSum(i) for all indexes **i** in the sample case.

prefixSum(1) + suffixSum(1) = 1 + 6 = 7

prefixSum(2) + suffixSum(2) = 3 + 5 = 8

prefixSum(3) + suffixSum(3) = 6 + 3 = 9

The minimum value of the function is 7, which is attained at index 1, so the answer would be 1.

**Example case 2.** Let's calculate prefixSum(i) + suffixSum(i) for all indexes **i** in the sample case.

prefixSum(1) + suffixSum(1) = 2 + 7 = 9

prefixSum(2) + suffixSum(2) = 3 + 5 = 8

prefixSum(3) + suffixSum(3) = 6 + 4 = 10

prefixSum(4) + suffixSum(4) = 7 + 1 = 8

The minimum value of the function is 8, which is achieved for indices 2 and 4. The minimum of these two indices 2, 4 is index 2. Hence, the answer will be 2.

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Date Added:27-08-2017

Time Limit:1 secs

Source Limit:50000 Bytes

Languages:ADA, ASM, BASH, BF, C, C99 strict, CAML, CLOJ, CLPS, CPP 4.3.2, CPP 6.3, CPP14, CS2, D, ERL, FORT, FS, GO, HASK, ICK, ICON, JAVA, JS, LISP clisp, LISP sbcl, LUA, NEM, NICE, NODEJS, PAS fpc, PAS gpc, PERL, PERL6, PHP, PIKE, PRLG, PYPY, PYTH, PYTH 3.5, RUBY, SCALA, SCM chicken, SCM guile, SCM qobi, ST, TCL, TEXT, WSPC

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

static void Main(string[] args)

{

int t = int.Parse(Console.ReadLine());

while (t-- > 0)

{

// long[] arr = { 1, 2, 3 };

// long[] arr= {2, 1, 3, 1};

// long[] arr = { 1 };

int n = int.Parse(Console.ReadLine());

long[] arr = Array.ConvertAll(Console.ReadLine().Trim().Split(' '), e => long.Parse(e));

long min\_sum = long.MaxValue;

int min\_index = -1;

long prefix = 0, suffix = arr.Sum();

for (int i = 0; i < arr.Length; i++)

{

prefix += arr[i];

if (i - 1 >= 0)

{

suffix -= arr[i - 1];

}

//Console.WriteLine(prefix + " " + suffix);

if (prefix + suffix < min\_sum)

{

min\_sum = prefix + suffix;

min\_index = i;

}

}

Console.WriteLine(min\_index+1);

}

Console.ReadLine();

}

}

}