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Sherlock and Array 🏠

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Watson gives Sherlock an array of integers. His challenge is to find an element of the array such that the sum of all elements to the left is equal to the sum of all elements to the right. For instance, given the array [5,6,8,11], 8 is between two subarray that sum to 11. If your starting array is [1], that element satisfies the rule as left and right sum to 0.

You will be given arrays of integers and must determine whether there is an element that meets the criterion.

Input Format

The first line contains T, the number of test cases.

The next $m{T}$ pairs of lines each represent a test case.

- The first line contains $m{n}$, the number of elements in the array $m{a}$.
- The second line for each test case contains n space-separated integers a_i where $0 \leq i < n$.

Constraints

$$1 \le T \le 10$$

$$1 \le n \le 10^5$$

$$1 \leq a_i \leq 2 \times 10^4$$

$$0 \le i < n$$

Output Format

For each test case print YES if there exists an element in the array, such that the sum of the elements on its left is equal to the sum of the elements on its right; otherwise print $\,NO$.

Sample Input 0

2

3

1 2 3

4

1 2 3 3

Sample Output 0

NO

YES

Explanation 0

For the first test case, no such index exists.

For the second test case, A[0]+A[1]=A[3], therefore index ${f 2}$ satisfies the given conditions.

Author darkshadows Difficulty Easy Max Score 40 Submitted By 51511

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https://www.hackerrank.com/challenges/sherlock-and-array/problem

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```
Java 7
  1 ▼ import java.io.*;
  2 import java.util.*;
     import java.text.*;
  3
  4
     import java.math.*;
  5
     import java.util.regex.*;
  6
  7 ▼ public class Solution {
  8
  9 ▼
          static String solve(int[] a){
 10
              // Complete this function
 11
 12
          public static void main(String[] args) {
 13 ▼
              Scanner in = new Scanner(System.in);
 14
              int T = in.nextInt();
 15
              for(int a0 = 0; a0 < T; a0++){
 16 ▼
                  int n = in.nextInt();
 17
                  int[] a = new int[n];
 18 ▼
 19 ▼
                  for(int a_i=0; a_i < n; a_i++){</pre>
                      a[a_i] = in.nextInt();
 20 ▼
 21
 22
                  String result = solve(a);
 23
                  System.out.println(result);
 24
              }
 25
          }
 26 }
                                                                   Line: 1 Col: 1
1 Upload Code as File
                   Test against custom input
                                                   Run Code
                                                                   Submit Code
```

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