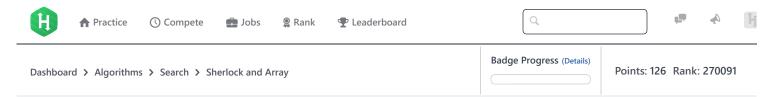
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# Sherlock and Array **■**



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Watson gives Sherlock an array A of length n. Then he asks him to determine 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. If there are no elements to the left/right, then the sum is considered to be zero. Formally, find an i, such that,  $A_0 + A_1 + \cdots + A_{i-1} = A_{i+1} + A_{i+2} + \cdots + A_{n-1}$ .

## **Input Format**

The first line contains T, the number of test cases. For each test case, the first line contains n, the number of elements in the array A. The second line for each test case contains n space-separated integers, denoting the array A.

## Constraints

 $1 \le T \le 10 \ 1 \le n \le 10^5 \ 1 \le A_i \le 2 imes 10^4 \ 1 \le i \le N$ 

## **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

# **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 **2** satisfies the given conditions.

f ⊌ in

 ${\color{red}\textbf{Submissions:}} \underline{44609}$ 

Max Score:40
Difficulty: Easy

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```
Current Buffer (saved locally, editable) & 🗘
                                                                                             Java 7
 1 ▼ import java.io.*;
    import java.util.*;
    import java.text.*;
    import java.math.*;
    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
15
             int T = in.nextInt();
             for(int a0 = 0; a0 < T; a0++){
16 ▼
17
                 int n = in.nextInt();
                 int[] a = new int[n];
18 ▼
                 for(int a_i=0; a_i < n; a_i++){</pre>
19 ▼
20 ▼
                     a[a_i] = in.nextInt();
21
22
                 String result = solve(a);
23
                 System.out.println(result);
24
25
         }
26
    }
27
                                                                                                                      Line: 1 Col: 1
                       ☐ Test against custom input
                                                                                                          Run Code
                                                                                                                       Submit Code
1 Upload Code as File
```

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