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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.

Example

$$arr = [5, 6, 8, 11]$$

8 is between two subarrays that sum to 11.

$$arr = [1]$$

The answer is [1] since 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. If there is, return YES. Otherwise, return NO.

Function Description

Complete the balancedSums function in the editor below.

Author	darkshadows
Difficulty	Easy
Max Score	100
Submitted By	11084
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MORE DETAILS

balancedSums has the following parameter(s):

• int arr[n]: an array of integers

Returns

• string: either YES or NO

Input Format

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

The next T pairs of lines each represent a test case.

- The first line contains n, the number of elements in the array arr.
- The second line contains n space-separated integers arr[i] where $0 \leq i < n$.

Constraints

- $1 \le T \le 10$
- $1 \le n \le 10^5$
- $1 \leq arr[i] \leq 2 imes 10^4$
- $0 \le i < n$

Sample Input

- 2
- 3
- 1 2 3
- 4
- 1 2 3 3

Sample Output

- NO
- YES

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Explanation

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.

```
Change Theme Language Python 3
                                                             (0)
     # Complete the 'balancedSums' function below.
10
     #
11
     # The function is expected to return a STRING.
12
     # The function accepts INTEGER_ARRAY arr as parameter.
13
14
     #
15
16
     def balancedSums(arr):
         n = len(arr)
17
         left_sum = 0
18
         right_sum = sum(arr)
19
20
         for i in range(n):
21
             right_sum -= arr[i]
22
23
             if left_sum == right_sum:
24
                 return "YES"
25
             left_sum += arr[i]
         return "NO"
26
27
     if __name__ == '__main__':
28
         fptr = open(os.environ['OUTPUT_PATH'], 'w')
29
30
         T = int(input().strip())
31
32
         for T_itr in range(T):
33
             n = int(input().strip())
34
```

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		Line: 43 Col: 1
 Test against custom input	Run Code	Submit Code

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