

Split

Jojo has an array of N integer, but he is really bad at mathematics, so he ask you if it is possible to split the array into 2 part where the sum of one part is same as the other part.

Format Input

The input starts with an integer T, the number of test cases Each test cases will start with an integer N, showing how many numbers in the array. Next line will contain N integers.

Format Output

Each test case output will start with "Case #T: " followed by "Yes" if it is possible to split the array with the same sum in each array, or "No" if it is impossible.

Constraints

$1 \leq T \leq 10$

$2 \leq N \leq 100,000$

It is guaranteed the number will be between -10,000 and 10,000.

Sample Input 1	Sample Output 1
3 4 1 1 1 1 3 0 0 0 2 3 1	Case #1: Yes Case #2: Yes Case #3: No

Sample Input 2	Sample Output 2
3 5 2 1 1 3 0 2 1 1 4 2 2 1 1	Case #1: No Case #2: Yes Case #3: No

Explanation:

For sample input 1:

The first test case {1,1,1,1} will be split to {1,1} and {1,1}.

The second test case {0,0,0} will be split to {0} and {0,0}. Another valid solution will split it to {0,0} and {0}.

The third test case {3,1} can not be split into two parts with the equal sum.

For sample input 2:

The third test case {2, 2, 1, 1} cannot be split into two parts with equal sum.

{2}, {2, 1, 1, 1}, [{2, 2}, {1, 1}], [{2, 2, 1}, {1}] are all not equal.