## Osman and His Array

Time Limit: 1.0s Memory Limit: 256M

Osman has an array $a_{1}, a_{2}, \ldots, a_{n}$.
In one operation, Osman chooses two different indices in the array $p$ and $q$ and decrease the integers $a_{p}$ and $a_{q}$ by one.

Osman wonders whether it is possible to make all the elements in the array zero or not. Can you help Osman find out?

## Input

The first line contains the number $N$, the size of the array.
The second line contains $N$ integers, $a_{1}, a_{2}, \ldots, a_{n}$, the elements of the array.

- $2 \leq N \leq 10^{5}$
- $1 \leq a_{i} \leq 10^{9}$


## Output

If it is possible to make all the elements 0 , you should print "YES". If it is not, you should print "NO".

## Examples

## Input 1:

4
4477

Output 1:

```
YES
```


## Input 2:

6
123456

Output 2:

No

## Explanations

- In the first input, it is possible to make all the elements 0 , by choosing the first 2 elements in 4 steps and choosing the last 2 elements in 7 steps, decreasing them by 1 each time.
- It is impossible to make them 0 in the second input.

