

## A. Fashion in Berland

time limit per test 1 second  
memory limit per test 256 megabytes  
input standard input  
output standard output

Link: <http://codeforces.com/problemset/problem/691/A>

According to rules of the Berland fashion, a jacket should be fastened by all the buttons except only one, but not necessarily it should be the last one. Also if the jacket has only one button, it should be fastened, so the jacket will not swinging open.

You are given a jacket with  $n$  buttons. Determine if it is fastened in a right way.

### Input

The first line contains integer  $n$  ( $1 \leq n \leq 1000$ ) — the number of buttons on the jacket.

The second line contains  $n$  integers  $a_i$  ( $0 \leq a_i \leq 1$ ). The number  $a_i = 0$  if the  $i$ -th button is not fastened. Otherwise  $a_i = 1$ .

### Output

In the only line print the word "YES" if the jacket is fastened in a right way. Otherwise print the word "NO".

### Examples

#### input

```
3
1 0 1
```

#### output

```
YES
```

#### input

```
3
1 0 0
```

#### output

```
NO
```