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PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS

B. Zero Array

CUSTOM

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

You are given an array $a_1, a_2, ..., a_n$.

In one operation you can choose two elements a_i and a_j ($i \neq j$) and decrease each of them by one.

You need to check whether it is possible to make all the elements equal to zero or not.

Inpu

The first line contains a single integer n ($2 \le n \le 10^5$) — the size of the array.

The second line contains n integers $a_1, a_2, ..., a_n$ ($1 \le a_i \le 10^9$) — the elements of the array.

Output

Print "YES" if it is possible to make all elements zero, otherwise print "NO".

Fxamples



Note

In the first example, you can make all elements equal to zero in 3 operations:

- Decrease a_1 and a_2 ,
- Decrease a_3 and a_4 ,
- Decrease a₃ and a₄

In the second example, one can show that it is impossible to make all elements equal to zero.

Codeforces Round #577 (Div. 2)

Finished

→ Practice?

Want to solve the contest problems after the official contest ends? Just register for practice and you will be able to submit solutions.

Register for practice

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest



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→ Contest materials

• Announcement (en)

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Processing math: 100%

