





PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS HACKS ROOM STANDINGS CUSTOM INVOCATION

B. Zero Array

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, \dots, 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.

Input

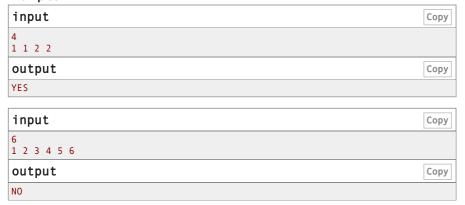
The first line contains a single integer n ($2 \le n \le 10^5$) — the size of the array.

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

Output

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

Examples



Note

In the first example, you can make all elements equal to zero in $\boldsymbol{3}$ operations:

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

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

→ 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 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

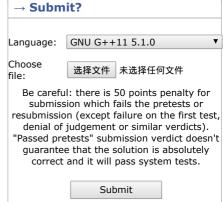
→ Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest







2019/9/26 Problem - B - Codeforces

• Tutorial #2 (en)

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