

## A. Cinema Line

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

The new "Die Hard" movie has just been released! There are  $n$  people at the cinema box office standing in a huge line. Each of them has a single 100, 50 or 25 ruble bill. A "Die Hard" ticket costs 25 rubles. Can the booking clerk sell a ticket to each person and give the change if he initially has no money and sells the tickets strictly in the order people follow in the line?

### Input

The first line contains integer  $n$  ( $1 \leq n \leq 10^5$ ) — the number of people in the line. The next line contains  $n$  integers, each of them equals 25, 50 or 100 — the values of the bills the people have. The numbers are given in the order from the beginning of the line (at the box office) to the end of the line.

### Output

Print "YES" (without the quotes) if the booking clerk can sell a ticket to each person and give the change. Otherwise print "NO".

### Examples

<b>input</b>
4 25 25 50 50
<b>output</b>
YES
<b>input</b>
2 25 100
<b>output</b>
NO
<b>input</b>
4 50 50 25 25
<b>output</b>
NO

### → Attention

Package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then value 800 ms will be displayed and used to determine the verdict.

### Codeforces Round #202 (Div. 2)

Finished

### → 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

### → Problem tags

greedy implementation

No tag edit access

### → Contest materials

- Announcement 
- Tutorial 