## Problem F: Oneko

Do you know oneko, the on-screen-cat? It is a cat running on your computer screen, chasing your mouse. Each time Lorenz is bored at work, he starts multiple onekos to have the entire group chase the mouse. After some time playing, he tries to let the onekos perform some tricks, like lining up in a straight line with the mouse. To form the line, he moves the mouse to the bottom left corner of the screen. You are given the coordinates of all onekos, can you write a program that checks if they are in one line with the mouse at $(0,0)$ ?


Figure F.1: Sample Input 2


Figure F.2: Sample Input 3

## Input ${ }^{\text {Z }}$

The input consists of:

- one line with one integer $n(1 \leq n \leq 1000)$, the number of onekos;
- $n$ lines, each with two integers $x_{i}$ and $y_{i}$, where $\left(x_{i}, y_{i}\right)$ is the position of the $i^{\text {th }}$ oneko and $0 \leq x_{i}, y_{i} \leq 10000$.


## Output

Output yes if all onekos and the mouse are on one line, no otherwise.

## Sample Input 1

1
10

## Sample Input 2

3
22
1010
1111

## Sample Input 3

2
21
32

## Sample Output 1

yes

## Sample Output 2

yes

## Sample Output 3

no

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