## Number Line Jumps

You are choreographing a circus show with various animals. For one act, you are given two kangaroos on a number line ready to jump in the positive direction (i.e, toward positive infinity).

- The first kangaroo starts at location $x 1$ and moves at a rate of $v 1$ meters per jump.
- The second kangaroo starts at location $x 2$ and moves at a rate of $v 2$ meters per jump.

You have to figure out a way to get both kangaroos at the same location at the same time as part of the show. If it is possible, return YES, otherwise return NO.

## Example

$x 1=2$
$v 1=1$
$x 2=1$
$v 2=2$
After one jump, they are both at $x=3,(x 1+v 1=2+1, x 2+v 2=1+2)$, so the answer is YES.

## Function Description

Complete the function kangaroo in the editor below.
kangaroo has the following parameter(s):

- int $x 1$, int v1: starting position and jump distance for kangaroo 1
- int $x 2$, int v2: starting position and jump distance for kangaroo 2


## Returns

- string: either YES or NO


## Input Format

A single line of four space-separated integers denoting the respective values of $x 1, v 1, x 2$, and $v 2$.

## Constraints

- $0 \leq x 1<x 2 \leq 10000$
- $1 \leq v 1 \leq 10000$
- $1 \leq v 2 \leq 10000$


## Sample Input 0

```
0 4 2
```


## Sample Output 0

## Explanation 0

The two kangaroos jump through the following sequence of locations:


From the image, it is clear that the kangaroos meet at the same location (number 12 on the number line) after same number of jumps ( 4 jumps), and we print YES.

## Sample Input 1

0253

## Sample Output 1

NO

## Explanation 1

The second kangaroo has a starting location that is ahead (further to the right) of the first kangaroo's starting location (i.e., $x_{2}>x_{1}$ ). Because the second kangaroo moves at a faster rate (meaning $v_{2}>v_{1}$ ) and is already ahead of the first kangaroo, the first kangaroo will never be able to catch up. Thus, we print NO.

