



# Kangaroo

## Problem

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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  $x1$  and moves at a rate of  $v1$  meters per jump.
- The second kangaroo starts at location  $x2$  and moves at a rate of  $v2$  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.

For example, kangaroo 1 starts at  $x1 = 2$  with a jump distance  $v1 = 1$  and kangaroo 2 starts at  $x2 = 1$  with a jump distance of  $v2 = 2$ . After one jump, they are both at  $x = 3$ , ( $x1 + v1 = 2 + 1$ ,  $x2 + v2 = 1 + 2$ ), so our answer is YES.

## Function Description

Complete the function kangaroo in the editor below. It should return YES if they reach the same position at the same time, or NO if they don't.

Author [wanbo](#)Difficulty [Easy](#)

Max Score 10

Submitted By [307263](#)

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