

## Problem 7: Owl Race

### Statement

As a part of the Magizooology class (Magizooology is the study of magical creatures), Harry is training his owl to become the fastest so he wins the owl race by the end of the year.

in order to achieve that he is training two owls:

- The first owl starts at location  $x_1$  and flies at the rate of  $v_1$  meters/sec.
- The second owl starts at location  $x_2$  and flies at the rate of  $v_2$  meters/sec.

You must help Harry to figure it out if it's possible that an owl will catch up to the other at some point during the race or not. If it's possible return YES, otherwise return NO.

### Input

A line of four values representing each of  $x_1$ ,  $v_1$ ,  $x_2$  and  $v_2$ .

### Output

YES if an owl can catch up to the other; otherwise print NO.

### Example

Input	Output
0 2 3 1	YES
0 3 1 4	NO