Do it Right!

Input file:	`stdin`
Output file:	`stdout`
Time limit:	2 seconds
Memory limit:	256 megabytes

Given two distinct positive integers A and B, find out if it is possible to find a third positive integer C so that a triangle with the sides A, B and C is a right triangle. Remember that a triangle is called a right triangle if one of its angles equals to 90 degrees.

Input

The first line of input contains two positive integers A and B: the lengths of the two given sides ($1 \leq A < B \leq 100$).

Output

Output "`YES`" if it is possible to find such an integer C, or "`NO`" otherwise.

Examples

stdin	stdout
3 4	YES
1 2	NO

Note

- In the first example, we can take $C = 5$.
- In the second example, it is impossible to find an integer C with the required property.