Loves Cake

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

$Mazen$ is living in the point $(0, 0)$ of the coordinate plane. $Mazen's$ cake is located in the point (x, y).

you can get the *minimum* distance betweent two point (x_1, y_1) and (x_2, y_2)

using this equation:

$$\sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$$

$Mazen$ will only be able to obtain his cake if the minimum distance required to reach it is an $Integer$ value.

Input

Single line contains x, y $(1 \leq x, y \leq 100)$ -the coordinates of the cake point.

Output

Output **"YES" if $Mazen$ can reach his cake and "NO" if he can't.**

Examples

standard input	standard output
2 2	NO
3 4	YES