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Chef And Magical Path

Problem Code: CHEFPATH

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Chef is stuck in a two dimensional maze having N rows and M columns. He needs to get out of the maze as soon as possible and arrive at the kitchen in order to serve his hungry customers. But, he can get out of the maze only if he is able to successfully find any *magical* path in the given maze.

A path is defined as *magical* if it starts from any of the cell (a,b) of the maze and ends at the cell (c,d) such that the following conditions are satisfied :-

- $|a - c| + |b - d| = 1$
- All the cells in the maze are traversed exactly once.
- It is allowed to move only in the four directions - up, down, left and right from the current cell.

Input

- First line of the input contains an integer T denoting the number of different types of scenarios.
- Each of the next T lines will contain two integers N, M denoting the dimensions of the maze.

Output

For each of the T scenarios, output a single line containing "Yes" or "No" (without quotes) denoting whether the Chef can get out of the maze or not.

Constraints

- $1 \leq T \leq 10^5$
- $1 \leq N, M \leq 10^{18}$

All Submissions

Successful Submissions



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Subtask #2 : (70 points)

Original Constraints

Example

Input :

```
1
2 2
```

Output :

Yes

Explanation

Example case 1.

Chef can start from (1,1), move down to (2,1), then move right to (2,2) and finally move upwards to reach (1,2). As, he is able to visit all the cells exactly once and sum of absolute differences of corresponding x and y dimension is 1, we can call this path a *magical* path.

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Editorial: <http://discuss.codechef.com/problems/CHEFPATH>

Tags: [april16](#), [hamiltonian](#), [prateekg603](#), [simple](#)

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Time Limit: 1 secs

Source Limit: 50000 Bytes

Languages: C, CPP14, JAVA, PYTH, PYTH 3.5, PYPY, CS2, PAS fpc, PAS gpc, RUBY, PHP, GO, NODEJS, HASK, SCALA, D, PERL, FORT, WSPC, ADA, CAML, ICK, BF, ASM, CLPS, PRLG, ICON, SCM qobi, PIKE, ST, NICE, LUA, BASH, NEM, LISP sbcl, LISP clisp, SCM guile, JS, ERL, TCL, PERL6, TEXT, SCM chicken, CLOJ, FS

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to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

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