Problem

You are given two positive integers A and B. You need to construct two **different** binary strings (i.e, they are strings which consist of only 0s and 1s), which satisfy these two conditions:

- Both the strings should be palindromes.
- Each string should have exactly A 0s, and exactly B 1s in them.

Output `Yes` if two such different binary strings can be constructed and `No` otherwise.

Note:

- A string is said to be a palindrome, if the string and the reverse of the string are identical.
- Two strings are said to be different if either their lengths are different, or if they differ in at least one character.

Input Format

- The first line of input will contain a single integer T, denoting the number of test cases.
- Each test case contains two space-separated integers, A and B, in a new line.

Output Format

For each test case, output on a new line 'Yes', if you can construct two different binary strings satisfying the conditions. If not, output `No`.

You may print each character of the string in uppercase or lowercase (for example, the strings `YeS`, `yes`, `YES`, and `YEs` will all be treated as identical).

Constraints

- $1 \leq T \leq 10^5$
- $1 \leq A, B \leq 10^6$

Sample 1:

Input	Output

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