Problem A: Complete binary tree [Easy I]

Description

Lanran has a binary tree with n nodes, she does not know whether this tree is a complete binary tree or not. She turns to you for help. We guarantee that the input is a binary tree.

Input

The first line will be an integer T, which is the number of the test cases.($1 \le T \le 14$) For each test case, the first line will be an integer n.($1 \le n \le 150000$)Then followed by n lines, each line will be two integers x and y, the i-th line means the left child of node i is x, the right child of node i is y. If node i has no left child, then x will be 0. If node i has no right child, then y will be 0.

Output

For each test output Yes or No in one line.

Sample Input

```
1
5
2 3
4 0
5 0
0 0
0 0
```

Sample Output

```
No
```

HINT

Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js