## **Problem C. How Cow**

**Time limit** 1000 ms **Mem limit** 65536 kB

Mr Kopa Samsu is a farmer. He has a land of rectangular shape. But there are cows that disturb him a lot. The cows use to enter his land and ruin his crops. Now Mr Kopa Samsu has become smarter. He has a GPS system that will help him to know the position of the cows. So, you can think his land as a 2D grid, and cows can be treated as points. Now you are given the information of his land and cows. You have to tell him whether a cow is inside his land or not.

## Input

Input starts with an integer  $T (\le 50)$ , denoting the number of test cases.

The first line of each case contains four integers  $\mathbf{x_1} \ \mathbf{y_1} \ \mathbf{x_2} \ \mathbf{y_2}$ , where  $(\mathbf{x_1}, \mathbf{y_1})$  is the lower left coordinate of his land and  $(\mathbf{x_2}, \mathbf{y_2})$  is the upper right coordinate of his land. You can assume that the sides of the land are axis parallel. The next line contains an integer  $\mathbf{M}$  ( $\mathbf{1} \le \mathbf{M} \le \mathbf{100}$ ) denoting the number of cows. Each of the next  $\mathbf{M}$  lines contains two integers each denoting  $\mathbf{x} \ \mathbf{y}$  - the position of a cow. You can safely assume that no cow will lie on the boundary of the rectangle. All the coordinates will lie in the range  $[\mathbf{0}, \mathbf{10000}]$ .

## Output

For each case you have to print the case number in a line first. Then for each cow, you have to print Yes or No depending whether the cow is inside the land or not.

## Sample

Sample	
Input	Output
1	Case 1:
1 2 8 10	No
7	Yes
0 0	No
5 6	Yes
1 0	Yes
7 9	No
3 5	No
10 10	
1 11	