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## Cows

Language: Default

Time Limit: 3000MS

Memory Limit: 65536K

Total Submissions: 7832

Accepted: 2567

## Description

Farmer John's cows have discovered that the clover growing along the ridge of the hill (which we can think of as a one-dimensional number line) in his field is particularly good.

Farmer John has  $N$  cows (we number the cows from 1 to  $N$ ). Each of Farmer John's  $N$  cows has a range of clover that she particularly likes (these ranges might overlap). The ranges are defined by a closed interval  $[S, E]$ .

But some cows are strong and some are weak. Given two cows: cow <sub>$i$</sub>  and cow <sub>$j$</sub> , their favourite clover range is  $[S_i, E_i]$  and  $[S_j, E_j]$ . If  $S_i \leq S_j$  and  $E_j \leq E_i$  and  $E_i - S_i > E_j - S_j$ , we say that cow <sub>$i$</sub>  is stronger than cow <sub>$j$</sub> .

For each cow, how many cows are stronger than her? Farmer John needs your help!

## Input

The input contains multiple test cases.

For each test case, the first line is an integer  $N$  ( $1 \leq N \leq 10^5$ ), which is the number of cows. Then come  $N$  lines, the  $i$ -th of which contains two integers:  $S$  and  $E$  ( $0 \leq S < E \leq 10^5$ ) specifying the start end location respectively of a range preferred by some cow. Locations are given as distance from the start of the ridge.

The end of the input contains a single 0.

## Output

For each test case, output one line containing  $n$  space-separated integers, the  $i$ -th of which specifying the number of cows that are stronger than cow <sub>$i$</sub> .

## Sample Input

3  
1 2  
0 3  
3 4  
0



## Sample Output

1 0 0

## Hint

Huge input and output,scanf and printf is recommended.

## Source

[POJ Contest](#),Author:Mathematica@ZSU

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