CODEFORCES β
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PROBLEMS   SUBMIT CODE   MY SUBMISSIONS   STATUS   HACKS   STANDINGS   CUSTOM INVOCATION

D. Nested Segments

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

You are given n segments on a line. There are no ends of some segments that coincide. For each segment find the number of segments it contains.

Input

The first line contains a single integer n ($1 \leq n \leq 2 \cdot 10^5$) — the number of segments on a line.

Each of the next n lines contains two integers l_i and r_i ($-10^9 \leq l_i < r_i \leq 10^9$) — the coordinates of the left and the right ends of the i-th segment. It is guaranteed that there are no ends of some segments that coincide.

Output

Print n lines. The j-th of them should contain the only integer a_j — the number of segments contained in the j-th segment.

Examples

input
```
4
1 8
2 3
4 7
5 6
```

output
```
3
0
1
0
```

input
```
3
3 4
1 5
2 6
```

output
```
0
1
1
```

Educational Codeforces Round 10

Finished

Practice

⭐

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

[Start virtual contest]

→ Practice

You are registered for practice. You can solve problems unofficially. Results can be found in the contest status and in the bottom of standings.

→ Submit?

Language: GNU G++11 5.1.0 ▼
Choose file: [Choose File] No file chosen

[Submit]

→ Last submissions

Submission	Time	Verdict
16944055	Mar/26/2016 08:25	Time limit exceeded on test 15
16942161	Mar/26/2016 04:35	Wrong answer on test 7
16931271	Mar/25/2016 17:59	Wrong answer on test 7
16930674	Mar/25/2016 17:50	Wrong answer on test 7
16930057	Mar/25/2016 17:40	Wrong answer on test 2

→ Problem tags

data structures   sortings

No tag edit access