

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

N. Merge Intervals

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

You have N intervals of integers, each of them has numbers from to $[l : r]$.
and we need to minimize the number of these intervals by using this operation :
choose any two intervals a, b - such that a and b intersect with each other - and remove them, then add a new interval c has all the numbers in a and b only.
you can use this operation any number of times.

Input
The first line of input contains N ($1 \leq N \leq 10^5$).

Then N lines, the i_{th} line contains l_i, r_i ($1 \leq l_i, r_i \leq 10^9$)

Output
print the new intervals in separate lines sorted according to minimum l .

input	Copy
5 2 4 9 12 6 9 8 10 1 3	
output	Copy
1 4 6 12	

ICPC Assiut University Training - Standard - Juniors Phase 1

Public

Participant

→ Group Contests

- Standard #5 (Bits , bit-masking)
- Standard #4 (Binary search , two pointers)
- Standard #3 (set , sorting, compare function , map)
- Standard #2 (binary search , stack , queue, deque , priority queue)
- Standard #1 (Frequency , prefix sum , vector , pair ,struct)

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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 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

→ Submit?

Language: GNU G++20 11.2.0 (64 bit, w

Choose file: Choose File No file chosen

Submit

Submission	Time	Verdict
226354772	Oct/03/2023 00:39	Accepted
226353836	Oct/03/2023 00:19	Accepted
226353133	Oct/03/2023 00:05	Wrong answer on test 3
226352923	Oct/03/2023 00:01	Wrong answer on test 2
226352763	Oct/02/2023 23:58	Accepted
226352647	Oct/02/2023 23:56	Accepted
226352326	Oct/02/2023 23:52	Accepted