

D. Developing Game

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

Pavel is going to make a game of his dream. However, he knows that he can't make it on his own so he founded a development company and hired n workers of staff. Now he wants to pick m workers from the staff who will be directly responsible for developing a game.

Each worker has a certain skill level v_i . Besides, each worker doesn't want to work with the one whose skill is very different. In other words, the i -th worker won't work with those whose skill is less than l_i , and with those whose skill is more than r_i .

Pavel understands that the game of his dream isn't too hard to develop, so the worker with any skill will be equally useful. That's why he wants to pick a team of the maximum possible size. Help him pick such team.

Input

The first line contains a single integer n ($1 \leq n \leq 10^5$) — the number of workers Pavel hired.

Each of the following n lines contains three space-separated integers l_i, v_i, r_i ($1 \leq l_i \leq v_i \leq r_i \leq 3 \cdot 10^5$) — the minimum skill value of the workers that the i -th worker can work with, the i -th worker's skill and the maximum skill value of the workers that the i -th worker can work with.

Output

In the first line print a single integer m — the number of workers Pavel must pick for developing the game.

In the next line print m space-separated integers — the numbers of the workers in any order.

If there are multiple optimal solutions, print any of them.

Examples

input
4 2 8 9 1 4 7 3 6 8 5 8 10
output
3 1 3 4

input
6 3 5 16 1 6 11 4 8 12 7 9 16 2 10 14 8 13 15
output
4 1 2 3 5