

Merge

Given a list of intervals "L". A new list "M" is constructed, after merging the redundant intervals in A.

For example:

```
A = [(1,5), (2, 6), (3, 3), (8, 9), (9, 10)]
then L = [(1, 6), (8, 10)]
(1, 5) and (2, 6) to (1, 6) [overlapping region]
(1, 6) and (3, 3) to (1, 6)
(8, 9) and (9, 10) to (8, 10)
you can't further merge (1, 6) and (8, 10)
```

Find the size of M.

Input:

First line contains N (size of A).

Next N lines follow.

i'th contains (li, ri). Denoting the start and end points of the i'th interval (both inclusive).

Output:

A single integer equal to the size of the list M.

Constraints:

$1 \leq N \leq 10^6$

$-10^9 \leq li, ri \leq 10^9$

Time Limit: 1 sec

Sample Input:

```
5
1 5
2 6
3 3
8 9
9 10
```

Sample Output:

```
2
```