Small Fezr



Stop popping my fezes - Dudu, 2016

NOTE: This problem is identical to "Large Fezr", but with smaller numbers.

Dudu is a great fez connoisseur, and as such he has an impressive collection of fezes. He usually keeps his hats on a stack but people keep popping his fezes.

He doesn't like when people pop his fezes, so he decided to use Fezr, a service that stores fezes for people. Each hat stored at Fezr receives a unique integer ID from $\mathbf{1}$ to N.

Dudu has a lot of fezes. He keeps track of intervals [a, b] where he knows he owns all fezes with ID between a and b (inclusive). All fezes Dudu owns are inside at least one of these intervals.

Can you count how many fezes Dudu has?



^^Dudu also likes other kinds of hats, like these non la^^____

Input Format

The first line of input has two integers: N - the total number of IDs distributed by Fezr and M, the total number of intervals Dudu knows he owns.

Each of the following M lines will contain two numbers a and b such that Dudu owns the interval [a,b].

Constraints

 $\begin{array}{l} 1 \leq N \leq 100 \\ 1 \leq M \leq 100 \end{array}$

 $1 \le a \le b$

Output Format

Output a single number, with the number of fezes Dudu owns.

Sample Input 0

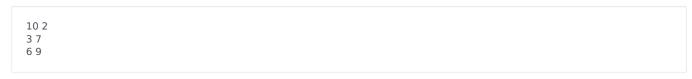
10 1 4 8

Sample Output 0

Explanation 0

Dudu has hats 4, 5, 6, 7, and 8. A total of 5 fezes.

Sample Input 1



Sample Output 1

7

Explanation 1

Dudu has hats 3, 4, 5, 6, 7, 8, and 9. A total of 7 fezes.

Be careful not to double count Dudu's fezes.