

COCI '11 Contest 2 #5 Funkcija

Time limit: 1.0s **Memory limit:** 128M

Mirko has written the following function:

```
int fun() {
    int ret = 0;
    for (int a = X1; a <= Y1; ++a)
        for (int b = X2; b <= Y2; ++b)
            ...
            for (int <N-th> = XN; <N-th> <= YN; ++<N-th>)
                ret = (ret + 1) % 1000000007;
    return ret;
}
```

```
function fun: longint;
var
    ret: longint;
    a, b, ... , y, z: longint;
begin
    ret := 0;
    for a := X1 to Y1 do
        for b := X2 to Y2 do
            ...
            for <N-th> := XN to YN do
                ret := (ret + 1) mod 1000000007;
    fun := ret;
end;
```

`<N-th>` denotes the N^{th} lowercase letter of the English alphabet. Each X_i and Y_i denotes either a positive integer less than or equal to 100 000 or a name of a variable that some outer loop iterates over. For example, X_3 can be either a , b , or an integer literal. At least one of X_i and Y_i will be an integer literal (i.e. not a variable name) for every i .

Compute the return value of the function.

Input Specification

The first line of input contains the positive integer N ($1 \leq N \leq 26$).

For the next N lines, the i^{th} line contains X_i and Y_i , separated with a space. If X_i and Y_i are both integer literals, then $X_i \leq Y_i$.

Output Specification

The first and only line of output must contain the return value of the function.

Sample Input 1

```
2
1 2
a 3
```

Sample Output 1

```
5
```

Sample Input 2

```
3
2 3
1 2
1 a
```

Sample Output 2

```
10
```

Sample Input 3

```
3
1 2
a 3
1 b
```

Sample Output 3
