Problem A
Cut The Sticks

Input file: *testdata.in*
Time limit: 3 seconds

Problem Description

Temmo have N sticks to cut. All of the sticks are placed parallel with the axis. The left side of the i-th stick is at the coordinate l_i, and the right side of that is at the coordinate r_i. For convenience you can treat these sticks as segments.

Temmo needs to make C cuts. The coordinate of each cut c_i must be integer, and between the left most coordinate of l_i and the right most coordinate of r_i (inclusive). And the distance between each pair of cuts must not be less than G. He wants to make the work easier, so he wants to cut the least sticks in these C cuts. The i-th stick is cut by the j-th cut if $l_i \leq c_j \leq r_i$. Denote w_i as the number of sticks would be cut in the i-th cut, can you tell him the minimum sum of all w_i?

Technical Specification

- $1 \leq N \leq 10^4$
- $1 \leq G, C \leq 10$
- $1 \leq l_i, r_i \leq 2^{12}$
- All of the numbers are integers.

Input Format

There are at most 100 test cases in the input. Each test case starts with three numbers N, G, C in a line. Then followed by N lines, each of these lines contains two numbers l_i and r_i.

Output Format

For each test case output the minimum sum of w_i.

Sample Input

```
3 1 2
2 5
3 6
7 9
```

Sample Output

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2
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