## Problem C: Sort Problems

Time limit: 1s; Memory limit: 256 MB

You are given a result ranking in two rounds of $n$ participants in an ACM/ICPC Contest. Suppose that Elo of one participant certainly higher than other participant's elo when he/she has higher ranking in all rounds than other one ( $r_{1 A}<r_{1 B}$ AND $r_{2 A}<$ $r_{2 B}$ where $r_{1 A}$ and $r_{2 A}$ are A's ranking of round 1 and round 2 , and $r_{1 B}$ and $r_{2 B}$ are similar with B's); otherwise it's not certain. You have to find how many ways to select $k$ participants in this contest and can be sorted by descending Elo of these participants.

## Input

First line contains two integer values $n$ - number of participants in this ACM/ICPC Contest and $k\left(1 \leq n \leq 10^{5}, 1 \leq k \leq 10\right)$.

Next $n$ lines contain two integer $r_{1 i}, r_{2 i}\left(1 \leq r_{l i}, r_{2 i} \leq n\right)$. All values ranking in each round are different.

## Output

Print one integer - the answer to the problem. It is guaranteed that the answer is not greater than $2^{63}$.

## Sample

|  | Input | Output |
| :--- | :--- | :--- |
| 53 |  |  |
| 2 | 2 |  |
| 1 | 1 |  |
| 3 | 3 |  |
| 5 | 4 |  |
| 45 |  | 2 |
| 3 | 2 |  |
| 1 | 1 | 3 |
| 3 | 2 |  |

