Problem G
Equations
Input: Standard Input
Output: Standard Output

Find the number of solutions, the equation $\sum X_i = s$ have, if $A_i \leq X_i \leq B_i$ for each $i = 1\ldots n$.

For example,

$$X_1 + X_2 + X_3 = 10$$
$$-1 \leq X_1 \leq 3$$
$$2 \leq X_2 \leq 4$$
$$6 \leq X_3 \leq 7$$

The above set of equations has 6 solutions. They are: {1,4,7}, {0,3,7}, {0,4,6}, {1,2,7}, {1,3,6} and {2,2,6}.

You are given **n** the number of variables and the range of them. Your task is to calculate the number of solutions of that equation.

Input:

First line of the Input contains **T** ($\leq$**50**) the number of test cases. Then **T** test cases follow. First line of each test case contains 2 integer **n** ($1 \leq n \leq 10$) and **s** ($-50000 \leq s \leq 50000$). Next **n** lines each contain 2 integers describing the range of each variable. The i^{th} line A_i and B_i ($-10000 \leq A_i \leq B_i \leq 10000$). X_i can take any integral value in the range $[A_i, B_i]$.

Output:

For each test case output contains one integer denoting the number of solutions of the given equations. Output the value **modulo 200003**.

Sample Input	Sample Output
1 3 10 -1 3 2 4 6 7	6

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