Arif and Nadia are playing a two player game. The game has following rules:

1. Given a rectangular board of Width $W$, and Height $H$. Consider the co-ordinate of lower left corner of this board is $(0,0)$ and co-ordinate of upper right corner is $(W, H)$.
2. In each turn a player can draw a rectangle in this board.
3. The player who place the last rectangle will win.

But since the board itself is a rectangle, the first player will always win if we do not restrict in drawing any kind of and any size of rectangle.

So we will put some restriction in drawing rectangles. Here are the rules:

1. All edges of the rectangle will be parallel to any of the edges of rectangular board.
2. All corners of the rectangle must be a lattice point. Lattice points, are the points in twodimensional coordinate system whose abscissa and ordinate has integer values. For example $(3,4)$ is a lattice point but $(3,4.5)$ is not a lattice point.
3. The width of the rectangle will be at most MaxWidth and at least MinWidth.
4. The height of the rectangle will be at most MaxHeight and at least MinHeight.
5. No two rectangles can overlap with each other.

Note that, A rectangle can be represented as $\left(x_{1}, y_{1}, x_{2}, y_{2}\right)$, where $\left(x_{1}, y_{1}\right)$ is the lower left corner and $\left(x_{2}, y_{2}\right)$ is the upper right corner. So, the height of the rectangle is $y_{2}-y_{1}$ and width of the rectangle is $x_{2}-x_{1}$, and area of the rectangle is $\left(y_{2}-y_{1}\right) *\left(x_{2}-x_{1}\right)$.

Predicting the winner of such a game is very hard. But your task is not that hard. At any stage of the game, Nadia wants to know how many possible moves are available to her. Your task is to help her. It might help her to win aginst Arif.

You will be given a state of board. You have to calculate, how many ways Nadia can place a rectangle having this state.

## Input

The first line of input is an integer $T(T \leq 100)$ that indicates the number of test cases. Each case will starts with a line containing two integer, $W(1 \leq W \leq 1000000000)$ width of the board and $H(1 \leq H \leq 1000000000)$ height of the board. Next Line will contain 4 integers, MaxWidth, MinWidth, MaxHeight, MinHeight. This line will be followed by another line containing a single integer $K(0 \leq K \leq 50)$, the number of rectangles placed in the board. Next $K$ line will represents one rectangle each. Each rectangle will be represented with 4 space separated integer values ( $x_{1}, y_{1}, x_{2}, y_{2}$ ), as described above.

There is a blank line between two test cases..

## Output

For each test case, output will be a single line containing $N$, the number of ways to place a rectangle in that board modulo 1000000007 .

## Sample Input

2
2010
2254
2
105116
4455
2010
2254
1
105116

## Sample Output

