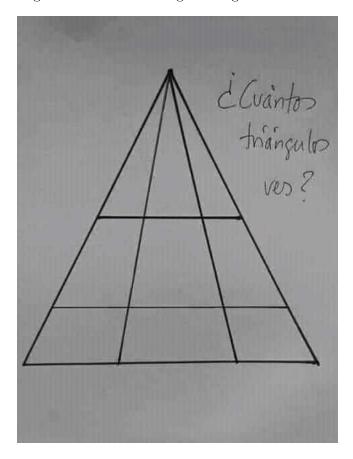
## Counting triangles

Input file: standard input
Output file: standard output

Time limit: 1 second Memory limit: 256 megabytes

Can you find how many triangles are in the following drawing?



Your task is to count the number of triangles in a drawing similar to the one above, where the outer triangle has N lines inside it going from the top to the base, and K lines inside that are parallel to its base.

## Input

The first line contains an integer T  $1 \le T \le 10^5$ , representing the number of test cases. Each of the next T lines represents a test case containing two integers separated by a space, N and K  $(0 \le N \le 10^9)$ ,  $0 \le K \le 10^9$ , representing, respectively, the number of lines going from the top to the base and the number of lines parallel to the base in the drawing.

## Output

For each test case print the number of triangles in the drawing. As this number can be big print it mod 1000000007

## Example

standard input	standard output
2	18
2 2	20
3 1	