Bob and Internship

Max. score: 100

This problem is no longer available for practice. Apology for any inconvenience!

Bob got selected for **N** day long internship in which he is required to complete **M** tasks . Each task can be completed in exactly one day . As Bob is very lazy he needs atleat **K** days for rest before starting any new task . In how many ways you can complete these M tasks. It does not matter in which order you complete these M tasks . Also it is not necessary to take rest after the last task . As output can be very large you have to print answer **Modulo** $10^9 + 7$.

NOTE : Two ways $D_1, D_2, \ldots\ldots, D_M$ and $D'_1, D'_2, \ldots\ldots, D'_M$ are considered diferent if for any $1 \leq i \leq M \quad D_i \neq D'_i$.

INPUT

FIrst line of input contains **T** number of test cases **.**

Next T lines contains three space seperated integers **N** , **M** , **K** .

OUTPUT

For each test case print the number of ways in which Bob can complete these M tasks in new line .

CONSTRAINTS

$1 < T < 10^6$

$1 \leq M \leq N \leq 10^6$

$0 \leq K \leq 10^6$

SAMPLE INPUT	SAMPLE OUTPUT
3 4 2 1 4 2 2 5 2 0	3 1 10

Explanation

Test Case 1 : There are 4 days in which we have to complete 2 tasks . So possible combinations in which we can complete tasks are $[1, 3], [1, 4], [2, 4]$.

You can see we are taking rest of minimum 1 day between two tasks.

Test Case 2 : There is only one possible way $[1, 4]$ as we have to maintain two day gap between them .