

Consider this sequence $\{1,2,3, \ldots, \mathrm{~N}\}$, as a initial sequence of first $\mathbf{N}$ natural numbers. You can rearrange this sequence in many ways. There will be $\mathbf{N}$ ! different arrangements. You have to calculate the number of arrangement of first $\mathbf{N}$ natural numbers, where in first $\mathbf{M}(\mathbf{M}<=\mathrm{N})$ positions, exactly $\mathbf{K}$ $(\mathrm{K}<=\mathrm{M})$ numbers are in its initial position.

Example:
For, $\mathrm{N}=5, \mathrm{M}=3, \mathrm{~K}=2$
You should count this arrangement $\{1,4,3,2,5\}$, here in first 3 positions 1 is in $1^{\text {st }}$ position and 3 in $3^{\text {rd }}$ position. So exactly 2 of its first 3 are in there initial position.

But you should not count this $\{1,2,3,4,5\}$.

## Input

The first line of input is an integer $\mathbf{T}(\mathbf{T}<=\mathbf{1 0 0 0})$ that indicates the number of test cases. Next T line contains 3 integers each, $\mathbf{N}(\mathbf{1}<=\mathbf{N}<=\mathbf{1 0 0 0})$, $\mathbf{M}$, and $\mathbf{K}$.

## Output

For each case, output the case number, followed by the answer modulo 1000000007. Look at the sample for clarification.

Sample Input
Output for Sample Input

| 1 |  |  |
| :--- | :--- | :--- |
| 5 | 3 | 2 |

Case 1: 12
532

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Special Thanks : Abdullah Al Mahmud, Jane Alam Jan

