1095 - Arrange the Numbers

Consider this sequence $\{1, 2, 3 \dots N\}$, as an initial sequence of first N natural numbers. You can rearrange this sequence in many ways. There will be a total of N! arrangements. You have to calculate the number of arrangement of first N natural numbers, where in first M positions; exactly K numbers are in their initial position.

For Example, N = 5, M = 3, K = 2

You should count this arrangement $\{1, 4, 3, 2, 5\}$, here in first 3 positions 1 is in 1^{st} position and 3 in 3^{rd} position. So exactly 2 of its first 3 are in there initial position.

But you should not count **{1, 2, 3, 4, 5}**.

Input

Input starts with an integer $T \leq 1000$, denoting the number of test cases.

Each case contains three integers N (1 \leq N \leq 1000), M (M \leq N), K (0 < K \leq M).

Output

For each case, print the case number and the total number of possible arrangements modulo 1000000007.

Sample Input	Output for Sample Input
2	Case 1: 12
5 3 2	Case 2: 64320
10 6 3	