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

## Example:

For, $N=5, M=3, K=2$
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 this $\{1,2,3,4,5\}$.

## Input

The first line of input is an integer $T(T \leq 1000)$ that indicates the number of test cases. Next $T$ line contains 3 integers each, $N(1 \leq N \leq 1000), M$, and $K$.

## Output

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

```
Sample Input
1
532
```


## Sample Output

```
Case 1: 12
```

