

## 13043 Marbles

How many different ways you can distribute  $N$  (**distinguishable**) marbles into  $K$  boxes where each box should contain at least  $X$  marbles? Two distributions are considered different if there is at least one marble which is contained by different boxes in the distributions.

### Input

First line of the input contains  $T$  ( $1 \leq T \leq 50$ ) which is the number of test cases. Each of the following  $T$  lines contains three space separated integers  $N$ ,  $K$  and  $X$  ( $1 \leq X \leq N \leq 100000$  and  $1 \leq K \leq 50$ ).

### Output

Output the case number, followed by the required quantity. Output the result *modulo* 1000000007.

**Note:** For the 1st case the possible distributions are (the  $i$ -th element is the box number for the  $i$ -th marble) :  $\{1,1,2,2\}$ ,  $\{1,2,1,2\}$ ,  $\{1,2,2,1\}$ ,  $\{2,2,1,1\}$ ,  $\{2,1,2,1\}$ ,  $\{2,1,1,2\}$ .

### Sample Input

```
3
4 2 2
10 5 3
900 5 20
```

### Sample Output

```
Case 1: 6
Case 2: 0
Case 3: 76094425
```