# **Permutations**

A website provides its users with a variety of services. There are a total of **K** services available on that website. At present there are **M** users/clients registered to the website.

Now each client of this service provider firm is to be allocated a project by the website which makes use of a string A1,A2,A3......An of N services all of which the website is providing. The order in which the services are executed matters (compiling and then linking is different from linking and then compiling). Also, in a particular project, the same services cannot be executed twice in succession. For example, compiling  $\rightarrow$  linking  $\rightarrow$  compiling is allowed, but linking  $\rightarrow$  linking  $\rightarrow$  compiling is not allowed because 'linking' comes twice in succession.

All the M clients will start working at the same time and the time taken for the execution of all services is equal. At a time, one service can be accessed by only one client as there is only one server. For eg. If there are 3 clients with projects – A1,A2...An; B1,B2....Bn and C1,C2....Cn, then Ai, Bi, Ci are pairwise distinct for  $1 \le i \le N$ . You need to find in how many ways in which the M clients can be allocated their projects.

## Input

First line containing **T** (number of test cases).

For each test case one line containing 3 integers N, M and K.

## **Output**

For each test case output a separate line containing the answer modulo 1000000007.

#### **Constraints**

1 <= **T** <= 10

 $0 \le N \le 1000000000$ 

 $1 \le M \le 100$ 

0 <= **K** <= 1000

### Sample Input

3

223

123

234

## **Sample Output**