## Permutations

A website provides its users with a variety of services. There are a total of $\mathbf{K}$ services available on that website. At present there are $\mathbf{M}$ 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. $\qquad$ .An of $\mathbf{N}$ 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 $\mathbf{A i}, \mathbf{B i}, \mathbf{C i}$ are pairwise distinct for $1<=\mathbf{i}<=\mathbf{N}$. You need to find in how many ways in which the $\mathbf{M}$ clients can be allocated their projects.

## Input

First line containing $\mathbf{T}$ (number of test cases).
For each test case one line containing 3 integers $\mathbf{N}, \mathbf{M}$ and $\mathbf{K}$.

## Output

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

## Constraints

$1<=\mathbf{T}<=10$
$0<=\mathbf{N}<=1000000000$
$1<=\mathbf{M}<=100$
$0<=\mathrm{K}$ <= 1000

## Sample Input

3

223
123
234

## Sample Output

