## Inversions

Calculate the number of ways that $k$ things can be 'chosen' from a set of $n$ things.

## Input

The first line of input is the number of tests $t<=100000$. Next $t$ lines contains two integers each $n$ and k , separated with a single space. $0<=\mathrm{k}<=\mathrm{n}<=100000$.

## Output

For each test output the number of ways that $k$ things can be 'chosen' from a set of $n$ things modulo 1000000007.

## Example

Input:
3
98765432
10050
10000050000

## Output:

266875274
538992043
149033233

