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1687. Permutation

Total: 1238 **Accepted:** 566 **Rating:** 3.9/5.0(11 votes) 0 ▼

Description

Time Limit: 1sec Memory Limit: 32MB

Permutation plays a very important role in Combinatorics.
For example, 1 2 3 4 5 and 1 3 5 4 2 are both 5-permutations.
As everyone's known, the number of n -permutations is $n!$.
According to their magnitude relatives, if we insert the symbols ' $<$ ' or ' $>$ ' between every pairs of consecutive numbers of a permutation, we can get the permutation with symbols.
For example, 1 2 3 4 5 can be changed to $1<2<3<4<5$,
1 3 5 4 2 can be changed to $1<3<5>4>2$.
Now it's your task to calculate the number of n -permutations with k ' $<$ ' symbols.
Maybe you don't like large numbers, so you should just give the result mod 2007.

Input

Input may contain multiple test cases.
Each test case is a line contains two integers n and k . $0 < n \leq 100$ and $0 \leq k \leq 100$.
The input will terminated by EOF.

Output

The nonnegative integer result mod 2007 on a line.

Sample Input

[Copy](#)

```
5 2
```

Sample Output

[Copy](#)

```
66
```

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