7. Mathematical Practice

Timelimit: 1000MS Memorylimit: 64M

Problem Description:

Kamishirasawa Keine always says, "If you don't know what to do, why not give mathematical practice a try."
However, Cirno is way too much talented to work on simple problems. Therefore, you are now tasked to crack one.
We consider one operation on a set S as selecting m subsets of S in order (You can select the same subset multiple times and the selected subset can be empty).
Now you need to figure out how many possible operations that the m selected subsets are pairwise disjoint.
As the answer may get very large, you need to print the answer after modulo 998244353.

Input requirements:

The input contains one line with two integers n and $m(1 \leq n, m \leq 10^9)$, where n is the size of set S and m is the number of subsets to be selected in one operation.

Output requirements:

Print one integer, the number of possible operations above after modulo 998244353.

Sample input1:

3 2

Sample output1:

27

Sample input2:

1000 25

Sample output2:

605425003