

Problem D. Dinner Problem

Input file: `dinner.in`
Output file: `dinner.out`
Time limit: 2 seconds
Memory limit: 256 megabytes

A group of k students from Cooking University living in the campus decided that each day of the semester one of them will prepare the dinner for the whole company. The semester lasts for n days.

In sake of fairness they decided that each of the students must prepare the dinner at least once during the semester. Now they wonder how many ways are there to plan the semester — to decide for each day which student would make a dinner that day. Help them to find that out.

Input

The input file contains two integer numbers k and n ($1 \leq k \leq n \leq 100$).

Output

Output one number — the number of ways.

Example

dinner.in	dinner.out
2 3	6

There are six ways: $(1, 1, 2)$, $(1, 2, 1)$, $(2, 1, 1)$, $(1, 2, 2)$, $(2, 1, 2)$, $(2, 2, 1)$.