

The Jump Address

Input file: **standard input**
Output file: **standard output**
Time limit: 2 seconds
Memory limit: 256 megabytes

TankEngineer has been found in one of cities in ALU according to the Prime Minister Rowdark's plan. But his quicksort algorithm outran the agent who tried to catch him, so he barely escaped. However the cruel Prime Minister Rowdark gathered all the lolis in that city and claimed to kill them all if TankEngineer doesn't submit himself to ALU in one day.

TankEngineer had no choice, how could he place his life heavier than the lives of a thousand of lolis? After all, as long as there are kawaii lolis and the love for them in this world, there shall be light and there shall be hope, someday everyone shall understand this. So he submitted himself to ALU over the night.

The execution is held at the city square. All the people gathered to watch the horrible death of an "extremely dangerous" Lolicon who likes to participate in ICPC contests. TankEngineer is going to be brunt alive. He closed his eyes as the fire was lit.

Suddenly, he hears a little loli crying, "He saved us! Why would they burn him?" A tear runs down his face. "I wish he could jump to another address during the execution!"

With that powerful wish and a bright flash of holy light, TankEngineer felt his body was lifted by a great wind, higher and higher until he doubts whether he is still alive. Another voice bursted out, "Oh man, why on earth did I put a jump in this place?!"

It's the great prophet ftiasch! TankEngineer realized he has jumped out of the world of ALU and went to some other dimension by the power of the loli's wish(or ftiasch's misfired mighty spell?). But he must act fast or he'll jump to some really weird place full of bugs!

Hurry up! Let the function $D(P) = \{x | P_x > P_{x+1}\}$ defined on all the n -permutations P . Tell TankEngineer the address he needs by counting how many permutations would satisfy $(\sum_{x \in D(P)} x) = k$ before the next instruction kicks in!

Input

The first line contains two integers n and k ($1 \leq n \leq 400, 0 \leq k \leq \frac{n(n-1)}{2}$) which are the size of the permutation and the constant described above.

Output

Print the remainder of the answer divided by $10^9 + 7$ in a single line.

Examples

standard input	standard output
5 5	22
10 10	21670