

K Candy Store



Jim enters a candy shop which has N different types of candies, each candy is of the same price. Jim has enough money to buy K candies. In how many different ways can he purchase K candies if there are infinite candies of each kind?

Input Format

The first line contains an integer T , the number of tests.

This is followed by $2T$ lines which contain T tests:

The first line (of each testcase) is an integer N and the second line (of each testcase) is an integer K .

Output Format

For each testcase, print the number of ways Jim can buy candies from the shop in a newline. If the answer has more than 9 digits, print the last 9 digits.

Note

This problem may expect you to have solved [nCr Table](#)

Constraints

$1 \leq T \leq 200$

$1 \leq N < 1000$

$1 \leq K < 1000$

Sample Input

```
2
4
1
2
3
```

Sample Output

```
4
4
```

Explanation

There are 2 testcases, for the first testcase we have $N = 4$ and $K = 1$, as Jim can buy only 1 candy, he can choose to buy any of the 4 types of candies available. Hence, his answer is 4. For the 2nd testcase, we have $N = 2$ and $K = 3$, If we name two chocolates as a and b , he can buy

```
aaa bbb aab abb
```

chocolates, hence 4.