

Given two integers n and r , in how many ways can r items be chosen from n items?

Input:

The first line contains the number of test cases T . Each of the next T lines contains two integers n and r .

Output:

Output T lines, containing the required answer for the corresponding test case. Output all answers modulo 142857 .

Constraints:

- $1 \leq T \leq 100000$
- $1 \leq n \leq 10000000000$
- $0 \leq r \leq n$

Sample Input:

```
4
2 1
4 0
5 2
10 3
```

Sample Output:

```
2
1
10
120
```