

Given two integers n and r . In how many ways can r items be chosen from n items?

Input Format

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

Constraints

$$1 \leq T \leq 10^5$$

$$1 \leq n \leq 10^9$$

$$0 \leq r \leq n$$

Output Format

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

Sample Input

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

Sample Output

```
2
1
10
120
```