nPr

Write a program to calculate nPr. nPr represents n permutation r and value of nPr is (n!) / (n-r)!.

Input: The first line of the input contains T denoting the number of testcases. First line of the test case will be the value of n and r respectively.
Output: For each test case output will be the value of nPr.
Constraints:
1<=T<=100
1 <=n,r<= 20
n>=r

Example:

Input:

2
2 1
10 4

Output:

2
5040