

## 530 Binomial Showdown

In how many ways can you choose  $k$  elements out of  $n$  elements, not taking order into account?  
Write a program to compute this number.

### Input

The input file will contain one or more test cases.

Each test case consists of one line containing two integers  $n$  ( $n \geq 1$ ) and  $k$  ( $0 \leq k \leq n$ ).

Input is terminated by two zeroes for  $n$  and  $k$ .

### Output

For each test case, print one line containing the required number. This number will always fit into an integer, i.e. it will be less than  $2^{31}$ .

**Warning:** Don't underestimate the problem. The result will fit into an integer — but if all intermediate results arising during the computation will also fit into an integer depends on your algorithm. The test cases will go to the limit.

### Sample Input

```
4 2
10 5
49 6
0 0
```

### Sample Output

```
6
252
13983816
```