

# Binomial coefficient

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[English version](#)

For integers  $n$  and  $k$  ( $0 \leq k \leq n < 1001$ ) determine  $\binom{n}{k}$  ([binomial coefficient](#)).

## Input

The first line of the standard input contains one integer  $t$  ( $t < 1001$ ) which is the number of test cases.

In each of the next  $t$  lines there are numbers  $n$  and  $k$ .

## Output

For each test print  $\binom{n}{k}$ .

## Example

### Input

```
3
0 0
7 3
1000 2
```

### Output:

```
1
35
499500
```