
Powers

X74205_en

Write a program to compute powers.

Input

Input consists of several pairs of integer numbers a and b . Assume $b \geq 0$.

Output

For every pair a,b , print a^b . Suppose, as usual, that $0^0 = 1$.

Sample input 1

```
3 2
2 8
5 0
0 3
0 0
-2 3
```

Sample output 1

```
9
256
1
0
1
-8
```

Observation

The use of power operator `**` is not allowed in this exercise.

Problem information

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