**3. Something Really Big?**

# Program Name: Big.java Input File: big.dat

Have you ever encountered an equation so big that not even a really big integer could handle it? Probably not. Calculate a^b, and print the solution in scientific notation with 3 significant digits. So, what’s the catch?

**Input**

The input will consist of an unknown number of lines. On each line, there will be two integers: a, the base, and b, the exponent. a will be 0<a< =20000000, and b will be greater than 0 with no upper bound.

**Output**

For each test case, output a^b in scientific notation with 3 significant digits.

**Example Input File**

3 4

15 259

90000 2

2 9223372036854775808

**Example Output to Screen**

8.10E1

4.05E304

8.10E9

1.00E2776511644261678600