**Exponentiation**

**Time Limit: 1000/500 MS (Java/Others)    Memory Limit: 65536/32768 K (Java/Others)  
Total Submission(s): 7345    Accepted Submission(s): 2107**

**Problem Description**

Problems involving the computation of exact values of very large magnitude and precision are common. For example, the computation of the national debt is a taxing experience for many computer systems.   
  
This problem requires that you write a program to compute the exact value of Rn where R is a real number ( 0.0 < R < 99.999 ) and n is an integer such that 0 < n <= 25.

**Input**

The input will consist of a set of pairs of values for R and n. The R value will occupy columns 1 through 6, and the n value will be in columns 8 and 9.

**Output**

The output will consist of one line for each line of input giving the exact value of R^n. Leading zeros should be suppressed in the output. Insignificant trailing zeros must not be printed. Don't print the decimal point if the result is an integer.

**Sample Input**

95.123 12

0.4321 20

5.1234 15

6.7592 9

98.999 10

1.0100 12

**Sample Output**

548815620517731830194541.899025343415715973535967221869852721

.00000005148554641076956121994511276767154838481760200726351203835429763013462401

43992025569.928573701266488041146654993318703707511666295476720493953024

29448126.764121021618164430206909037173276672

90429072743629540498.107596019456651774561044010001

1.126825030131969720661201

**Source**

[East Central North America 1988](http://acm.hdu.edu.cn/search.php?field=problem&key=East+Central+North+America+1988&source=1&searchmode=source)

**Recommend**

PrincetonBoy   |   We have carefully selected several similar problems for you:  [1753](http://acm.hdu.edu.cn/showproblem.php?pid=1753) [1250](http://acm.hdu.edu.cn/showproblem.php?pid=1250) [1065](http://acm.hdu.edu.cn/showproblem.php?pid=1065) [1829](http://acm.hdu.edu.cn/showproblem.php?pid=1829) [1209](http://acm.hdu.edu.cn/showproblem.php?pid=1209)