Problem E: Exponentiation

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 R^n where R is a real number ($0.0 < R < 99.999$) and n is an integer such that $0 < n \leq 25$.

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 and insignificant trailing zeros should be suppressed in the output.

Sample Input

```
95.123 12
0.4321 20
5.1234 15
6.7592  9
98.999 10
1.0100 12
```

Sample Output

```
548815620517731830194541.899025343415715973535967221869852721
.000000051485546410769561219945112767671548384817602007263512038354297630134624 01
43992025569.928573701266488041146654993318703707511666295476720493953024
29448126.764121021618164430206909037173276672
904290727436295404 98.107596019456651774561044010001
1.126825030131969720661201
```

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