50. Pow(x, n)

Implement pow(x, n), which calculates x raised to the power n (i.e., x^n).

Example 1:

Input: x = 2.00000, n = 10

Output: 1024.00000

Example 2:

Input: x = 2.10000, n = 3

Output: 9.26100

Example 3:

Input: x = 2.00000, n = -2

Output: 0.25000

Explanation: $2^{-2} = 1/2^2 = 1/4 = 0.25$

Constraints:

-100.0 < x < 100.0

$-2^{31} <= n <= 2^{31}-1$

n is an integer.

Either x is not zero or n > 0.

$-10^4 <= x^n <= 10^4$