

50. Pow(x, n)

Medium

Topics

Companies

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:

- $-100.0 < x < 100.0$
- $-2^{31} \leq n \leq 2^{31}-1$
- n is an integer.
- Either x is not zero or $n > 0$.
- $-10^4 \leq x^n \leq 10^4$