

# Leet Code

## Day-34 Q-03: 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:

- $-100.0 < x < 100.0$
- $-2^{31} \leq n \leq 2^{31}-1$
- $-10^4 \leq x^n \leq 10^4$