

## 50. Pow(x, n)

Medium

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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:

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

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