

## 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:

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