Pow (XII))
	-

For this publism, the key is to compute x" efficiently, expecially be large n, including negative powers.

Ly Idea: Fast Exponentietion / (Exponentiation by Igeasing):

Naive method: Multiply X in times - O(i) (too slow for large in).
• Fast expenentiation: Repeatedly square X, halve in - O(logu).

Handling Negative 11

Convert n'to positive, compute, souver, êtun take recipeocal.

[Algorithm:[

1. If n co:

· fet X = 1/X

· Use n=-n (careful roith INT_M/N use long long to avoid everflow)

2. Initialite seult = 1

3. While 1150;

If n is sold, multiply sesult by x

· Iguare X and halven.

[Complexity: Time: O(logu)

· Grace: Da)