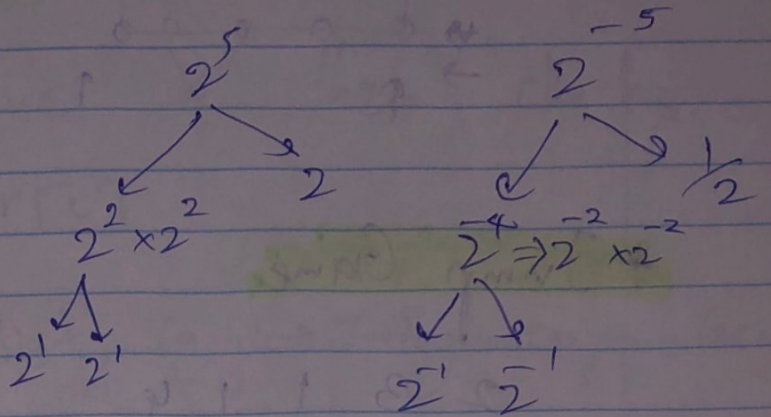


pow(x, n)

Time:

$$\underbrace{2 \times 2 \times 2 \times 2 \times 2}_{\text{5 times}}$$

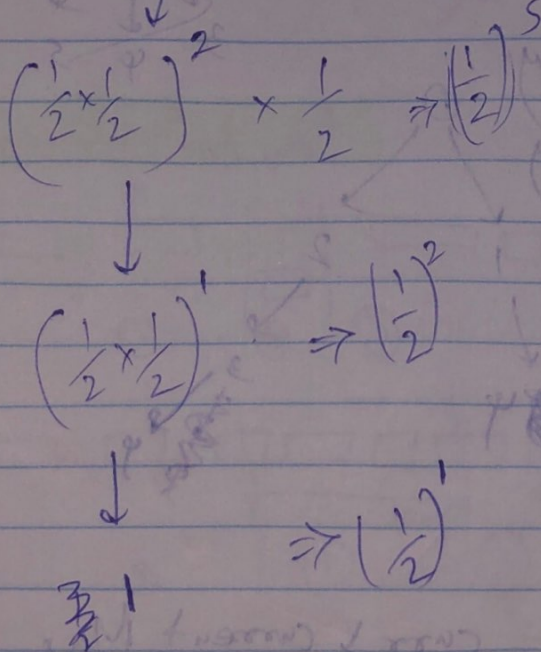
$O(\log n)$



$$2^5 = \left(\frac{1}{2}\right)^5$$

$$2^6 = 4^3 \Rightarrow 2^6 = (2 \times 2)^3$$

$2^n = 6 \times 2$



Integer.MIN_VALUE

overflow when
to diff
convert to + value
directly.