## Bit Manipulation

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SHIFT 
$$x >> k = \frac{x}{2^k}$$
  
 $x << k = x \cdot 2^k$ 

NOT 
$$X = \sim X$$

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STOP

(2) Is regative?

2's a pliment

## BIT MANIPULATION TRICKS

$$\times & (1<\langle i \rangle \longrightarrow 0 = unset)$$

$$\Rightarrow | (1<\langle i \rangle)$$

$$= set$$

$$unset \longrightarrow \times & \sim (1<\langle i \rangle)$$

\* UNSET last/right most set bit