

$\textcircled{-6}$ PV
*

1	0	F	T
0	1	T	F

Bitwise NOT \rightarrow $5 \rightarrow 0101$
 $\sim 5 \rightarrow 1010$

$\textcircled{-6} \rightarrow \text{abs}(-6) = 6$

$\text{bin} = 0110$

$2^{\text{is}} \begin{cases} 1^{\text{is}} c = 1001 \end{cases}$

$\text{com} \begin{cases} +1 = 0001 \end{cases}$

$\underline{1010}$

$= 10$
 \textcircled{TV}

MCS: ~ 5 (a) 5 (b) 6 (c) 10 (d) $\textcircled{-6}$

$n \rightarrow \sim n = -n - 1$

$-5 - 1 = -6$

$(-500) = -(-500) - 1 = 500 - 1 = 499$

Power of Two \Rightarrow

$(n \& (n-1) == 0)$
 $\leftarrow 011 \rightarrow$

2^4 10000
 16
 01111

$3 \times$
 0010

2^3 1000
 8
 0111

2^2 0100
 4

1001
 9×1000

0110

$6 \times$

0101

num =
 0011

if $(n \& (n-1) == 0)$ {
 \leftarrow power of 2;

else {
 not power of 2;