

No: _____

Date: ____/____/____

* Sum of Two Integers without (+) and (-) *

can use bit manipulation.

$$\begin{array}{r} a \ 10 \\ b \ 11 \rightarrow 101 \end{array}$$

$$\begin{array}{r} \text{X} \ 10 \\ a \ 1 \ 01 \\ b \ \ll 100 \\ \hline \text{X} \ 000 \\ a \ 1 \ 101 \rightarrow \\ b \ \ll 000 \end{array}$$

as $b=0$, return a

$$\begin{array}{r} a \ 101 \\ b \ 010 \end{array}$$

$$\begin{array}{r} \text{X} \ 000 \\ a \ 1 \ 111 \rightarrow \\ b \ \ll 0000 \end{array}$$

iterative or recursive