

a) i)  $- \quad \underline{2r13}$

ii)  $16 \overline{) 45}$  123456789 ABCDEF

$$\begin{array}{r|l} 256 & 16 & 1 \\ \hline 0 & 2 & D \end{array}$$

$45_{10} = 2D_{16}$

iii)  $1110 - 0111$

ones comp = 1000

twos comp = 1001

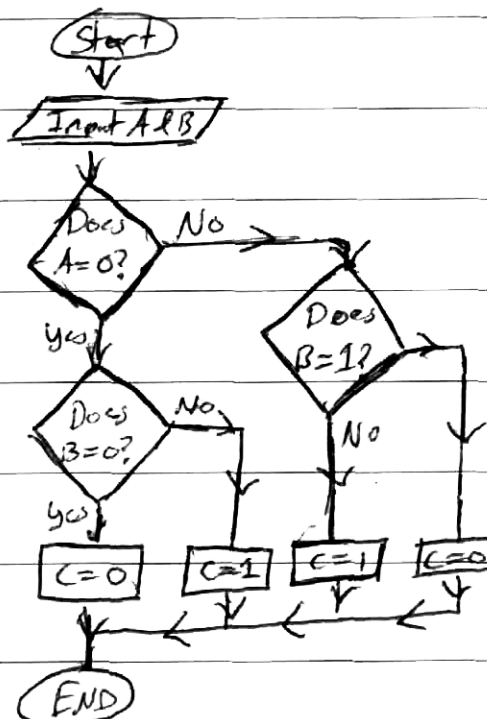
$$\begin{array}{r} 1110 \\ + 1001 \\ \hline \end{array}$$

$\sqrt{0111}$

$1110 - 0111 = 0111$

b) i)  $-$

inputs		outputs
A	B	C
0	1	0
1	0	0
0	0	0
1	1	1



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c)

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