

Lab 3 cs211:

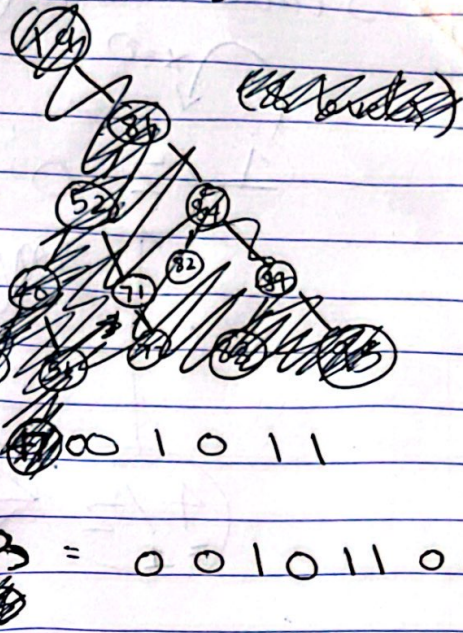
- $43 = 101011$
 $27 = 011011$

~~101011~~



\Rightarrow

A	B	C
1	0	0
0	1	0
1	1	0
0	0	0
1	1	1



$\Rightarrow 43 \ 8 \ 27$

$\Rightarrow (43 \ 8 \ 27) < 3 = 001011000$

$\Rightarrow 14 = 1110$
 $9 = 1001$

A	B	C
1	1	1
1	0	1
1	0	1
0	1	1

so, $14 \mid 9 = 1111$
 $= 000001111$

$\Rightarrow (43 \ 8 \ 27) < 3 \mid (14 \mid 9)$

A	B	C
0	0	0
0	0	0
1	0	1
0	0	0
1	0	1
1	1	1
0	1	1
0	1	1

so $(43 \ 8 \ 27) < 3 \mid (14 \mid 9)$
 $= 001011111$

$= \boxed{95}$