

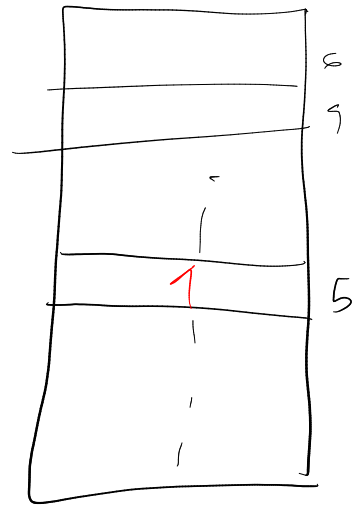
j. label  
 ↓  
 (30) target

BAT, BTB

8  $\Rightarrow \log_2 8 = 3 \text{ bit}$

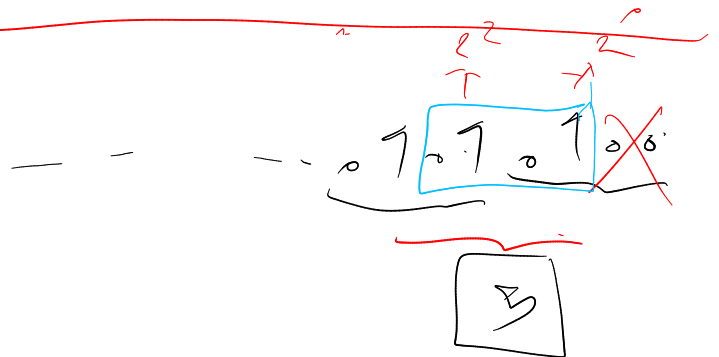
32 bit =  
 + 4  
 + 4 = 8  
 + 4 = 12  
 + 4 = 16

0 8 0 8 0 8 0 4  
 . . . . 1 0 .  
 . . . . 1 0 .  
 . . . . 1 1 .  
 1 . . . .

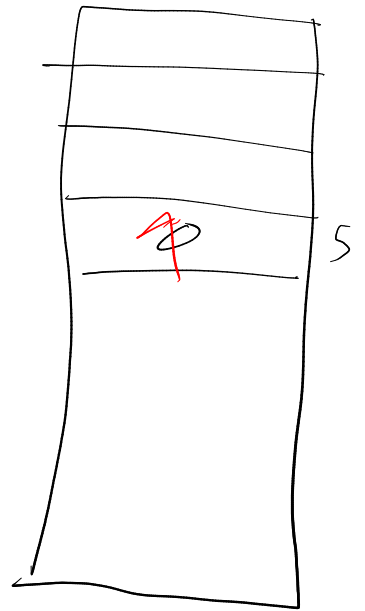
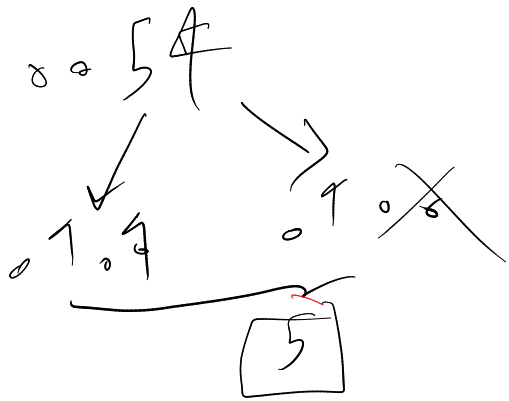


0 2 0 0 4 5 0 0 5 4

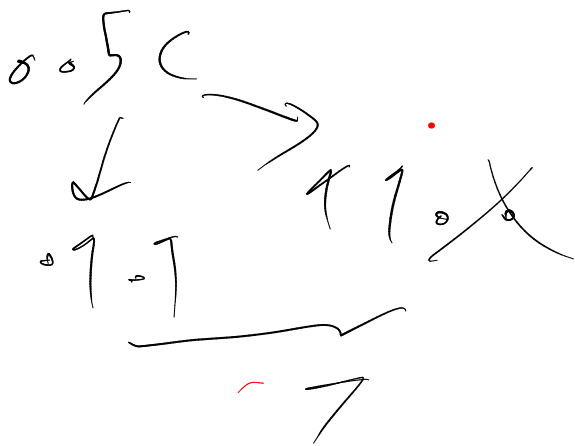
$\log_2 16 = 4$



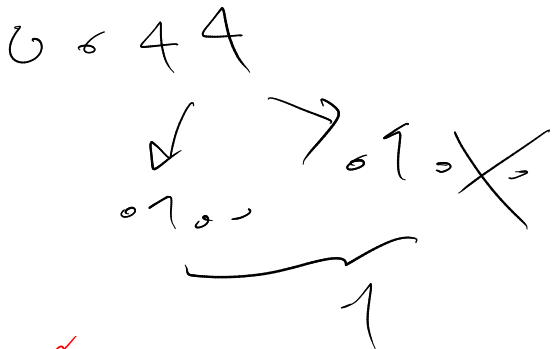
5 → 1 miss



5 → 0 miss



7 → 1 miss



1 → 1 miss

$$1'3_2^8 = 3$$

$$\begin{array}{c} 3 < \\ \swarrow \quad \searrow \\ \checkmark \quad 11 \cancel{0} \\ \circ \circ 11 \end{array}$$


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$$\begin{array}{c} 2 \quad 8 \\ \swarrow \quad \searrow \\ \checkmark \quad 1 \cdot \cancel{0} \\ \circ \circ 10 \end{array}$$


---

2

$$\begin{array}{c} \circ \circ 48 \\ \swarrow \quad \searrow \\ \checkmark \quad 1 \cdot \cancel{0} \\ \circ \circ 10 \end{array}$$

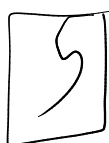
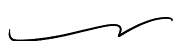

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$$L \cdot 3^8_2 = 3$$

0 0 5 4



0 1 0 1 0 1 0 1



miss

5

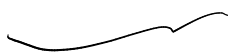
.	
0x00A50054;	0x00A60050

0 0 5 0

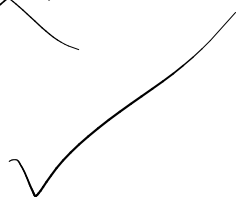


0 1 0 1

0 0 1 1



4



0 0 5 8



0 1 0 1

1 0 1 1 miss



6

J label

↓  
~~BNT~~

1  
4 C  
+  
4

4

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5 0