2.(9) 
$$A < 8 = \begin{bmatrix} 1 & 0 & \overline{A} \cap B = \\ 1 & 1 \end{bmatrix}$$

Thus,  $A < CB = \overline{A} \cap B$ 

(b).  $A < (B \cap C) = A \cup B \cap C$ 

$$B \cap C = 0 \quad 0 \quad 0 \quad 1 \quad 1 \quad 0 \quad 0$$

$$B \cap C = 0 \quad 0 \quad 0 \quad 1 \quad 1 \quad 0 \quad 0$$

$$A = 0 \quad 0 \quad 0 \quad 0 \quad 1 \quad 1 \quad 0$$

$$A = 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 1 \quad 1 \quad 0$$

$$A = 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0 \quad 0$$

$$A \cup B \cap C = 0 \quad 1 \quad 1 \quad 0 \quad 0 \quad 0$$

$$A \cup B \cap C = 0 \quad 1 \quad 1 \quad 0 \quad 0 \quad 0$$

O

$$(A (B) (C = (A (B) ) \overline{C})$$

$$= 0000111100$$

(C). BUC = 
$$0000111100$$
BUC =  $0000111100$ 
BUC =  $0000111100$ 
BUC =  $00000111100$ 

$$(A \leftarrow B) \cap (A \leftarrow C) = 0 \quad | \quad 0 \quad 0 \quad | \quad 0$$

3. Programming Logic Math Entry

0 0 0 
$$|8-2-4-3-1-3-1-2=2$$

0 0  $|10-4-3-1=2$ 

0 | 0  $|6-4-1-2=3$ 

1 0 0  $|6-4-1-2=1$ 

1 0 1  $|4-1=3$ 

1 0  $|1-2=2$ 

0 0 0 1 11 10

1 0  $|1-2=2$