

Step 3: Find T_A , T_B and T_C using K map:

T_A :

$Q_A \backslash Q_B Q_C$	00	01	11	10
0			1	
1			1	

$$T_A = Q_B \cdot Q_C$$

T_B

$Q_A \backslash Q_B Q_C$	00	01	11	10
0		1	1	
1		1	1	

$$T_B = Q_C$$

T_C

$Q_A \backslash Q_B Q_C$	00	01	11	10
0	1		1	
1	1		1	

$$T_C = \overline{Q_B} \overline{Q_C} + Q_B Q_C$$

Step 4: Circuit:

