

Truth Table:

My Roll - 1805116

$$16 \div \text{mod } 5 = 1$$

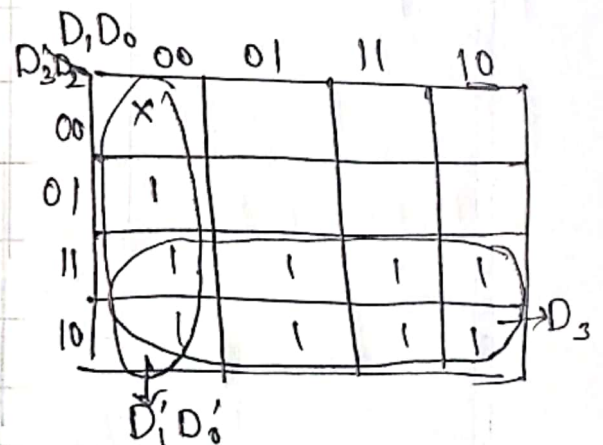
So, in descending
Order priority,

problem-1:

$$D_3 > D_1 > D_0 > D_2$$

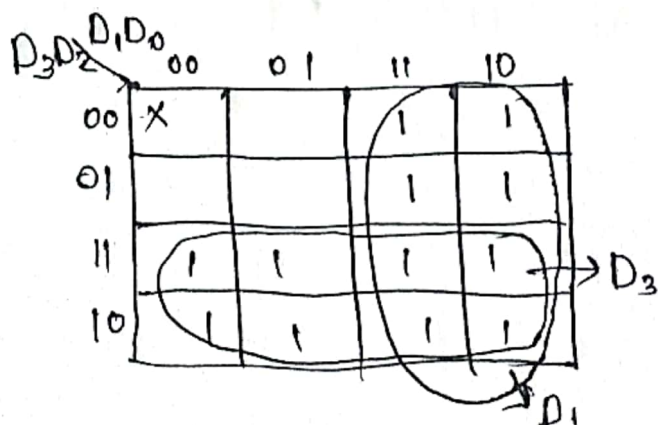
(11) (01) (00) (010)

k map for Y_1 :



$$\therefore Y_1 = D_3 + D_1'D_0'$$

k map for Y_0 :



$$\therefore Y_0 = D_1 + D_3$$