

CSF 206
Online-4

Priority: $\overleftarrow{D_0, D_1, D_3, D_2}$

D_3	D_2	D_1	D_0	Y_1	Y_0
0	0	0	0	X	X
0	0	0	1	0	0
0	0	1	0	0	1
0	0	1	1	0	0
0	1	0	0	1	0
0	1	0	1	0	0
0	1	1	0	0	1
0	1	1	1	0	0
1	0	0	0	1	1
1	0	0	1	0	0
1	0	1	0	0	1
1	0	1	1	0	0
1	1	0	0	1	1
1	1	0	1	0	0
1	1	1	0	0	1
1	1	1	1	0	0

$D_3 D_2 \backslash D_1 D_0$	00	01	11	10
00	X			1
01				1
11	1			1
10	1			1

$$Y_0 = D_1 \overline{D_0} + D_3 \overline{D_0}$$

$$= \overline{D_0} (D_1 + D_3)$$

$D_3 D_2 \backslash D_1 D_0$	00	01	11	10
00	X			
01	1			
11	1			
10	1			

$$Y_1 = \overline{D_1} \overline{D_0}$$