

Student: Lici Mihai - George
Semnatura: Lici

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Examen Proiectare Logică

1) SRTC = 02 34 32 15 20 31

N	S	R	T	C	Q	Obs
0	0	0	0	0	1	-
2	0	0	1	0	1	Mem
3	0	0	1	1	0	T
4	0	1	0	0	0	Reset (↗)
3	0	0	1	1	0	M
2	0	0	1	0	0	Mem
1	0	0	0	1	1	↑
5	0	1	0	1	0	Reset
2	0	0	1	0	0	Mem
0	0	0	0	0	0	Mem
3	0	0	1	1	0	M
1	0	0	0	1	0	Mem

R = 110000100000

2) 2 BB tip A ; X și Y

$XY = 00 \rightarrow 1-3-2-0-1;$

$XY = 01 \rightarrow 3-3; 2-2; 0-1-1;$

$XY = 10 \rightarrow 0-0; 1-1; 3-2-2;$

$XY = 11 \rightarrow 2-2; 0-2; 1-3-2$

x	y	Q_1	Q_0	Q_1^*	Q_0^*	D_1	D_0
0	0	0	0	0	1	0	1
0	0	0	1	1	1	1	1
0	0	1	0	0	0	0	0
0	0	1	1	1	0	1	0
0	1	0	0	0	1	0	1
0	1	0	1	0	1	0	1
0	1	1	0	1	0	1	0
0	1	1	1	1	1	1	1
1	0	0	0	0	0	0	0
1	0	0	1	0	1	0	1
1	0	1	0	1	0	1	0
1	0	1	1	1	0	1	0
1	1	0	0	1	0	1	0
1	1	0	1	1	1	1	1
1	1	1	0	1	0	1	0
1	1	1	1	1	0	1	0

$Q_1 Q_0$	xy	00	01	11	10
00	0	0	0	1	0
01	1	1	0	1	0
11	1	1	1	1	1
10	0	1	1	1	1

$$D_1 = xy + Q_1 Q_0 + x Q_1 + \bar{x} \bar{y} Q_0$$

x/y	00	01	11	10
$Q_1 Q_0$				
00	1	1	0	0
01	1	1	1	1
11	0	1	0	0
10	0	0	0	0

$$D_0 = \overline{Q_1} \overline{Q_0} + \overline{x} \overline{Q_1} + \overline{x} y Q_0$$

