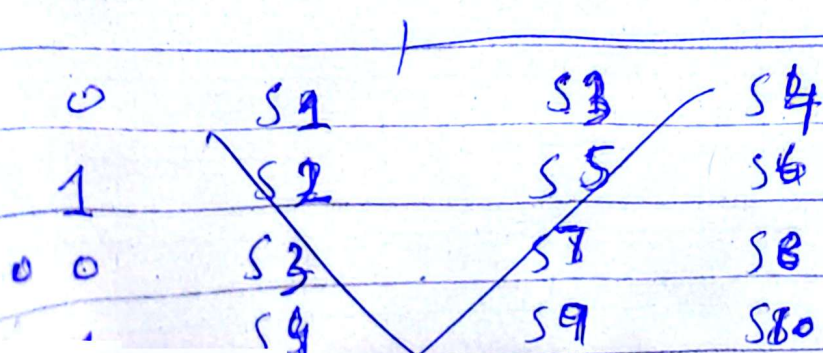


input seq.	Present State	Next State Inputs		Next State Output	
		$x_2=0$	$x_2=1$	$x_2=0$	$x_2=1$
Reset	S0	S1	S2	0	0
0	S1	S3	S4	0	0
1	S2	S5	S6	0	0
0 0	S3	S7	S8	0	0
0 1	S4	S7	S6	0	0
1 0	S5	S11	S12	0	0
1 1	S6	S11	S14	0	0
0 0 0	S7	S0	S0	0	0
0 0 1	S8	S0	S0	0	0
0 1 0	S9	S0	S0	0	0
0 1 1	S10	S0	S0	0	0
1 0 0	S11	S0	S0	0	0
1 0 1	S12	S0	S0	0	0
1 1 0	S13	S0	S0	0	1*
1 1 1	S14	S0	S0	0	0



$S_7 = S_8 = S_9 = S_{10} = S_{11} = S_{12} = S_{14}$

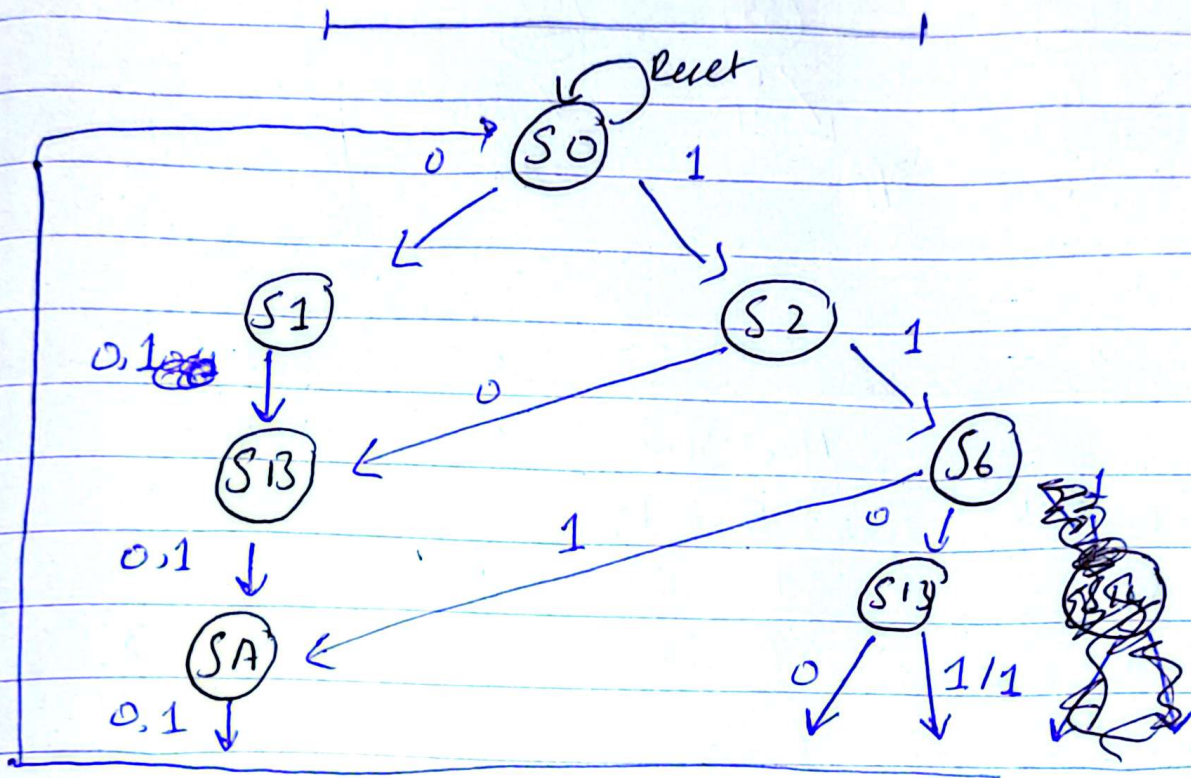
$S_3 = S_4 = S_5$

input	Present State	Next State		Output	
		X=0	X=1	X=0	X=1
Reset	S <sub>0</sub>	S <sub>1</sub>	S <sub>2</sub>	0	0
0	S <sub>1</sub>	S <sub>3</sub>	S <sub>4</sub>	0	0
1	S <sub>2</sub>	S <sub>5</sub>	S <sub>6</sub>	0	0
00	S <sub>3</sub>	S <sub>7</sub>	S <sub>8</sub>	0	0
01	S <sub>4</sub>	S <sub>9</sub>	S <sub>10</sub>	0	0
10	S <sub>5</sub>	S <sub>11</sub>	S <sub>12</sub>	0	0
11	S <sub>6</sub>	S <sub>13</sub>	S <sub>14</sub>	0	0
110	S <sub>13</sub>	S <sub>0</sub>	S <sub>0</sub>	0	1
remaining	S <sub>A</sub>	S <sub>0</sub>	S <sub>0</sub>	0	0





input seq.	Present State	Next State		output	
		$x_{20}$	$x_{21}$	<del>Present State</del> $x_{20}$	$x_{21}$
Reset	S0	S4	S2	0	0
0	S1	S3	S3	0	0
1	S2	S3	S6	0	0
11	S6	S13	<del>S4</del> SA	0	0
000, 01, 10	S3	SA	SA	0	0
	SA	S0	S0	0	0
110	S13	S0	S0	0	1



S0 = 000

S1 = 000 1

S2 = 010

S6 = 011

S3 = 0100

SA = 101

S13 = 110