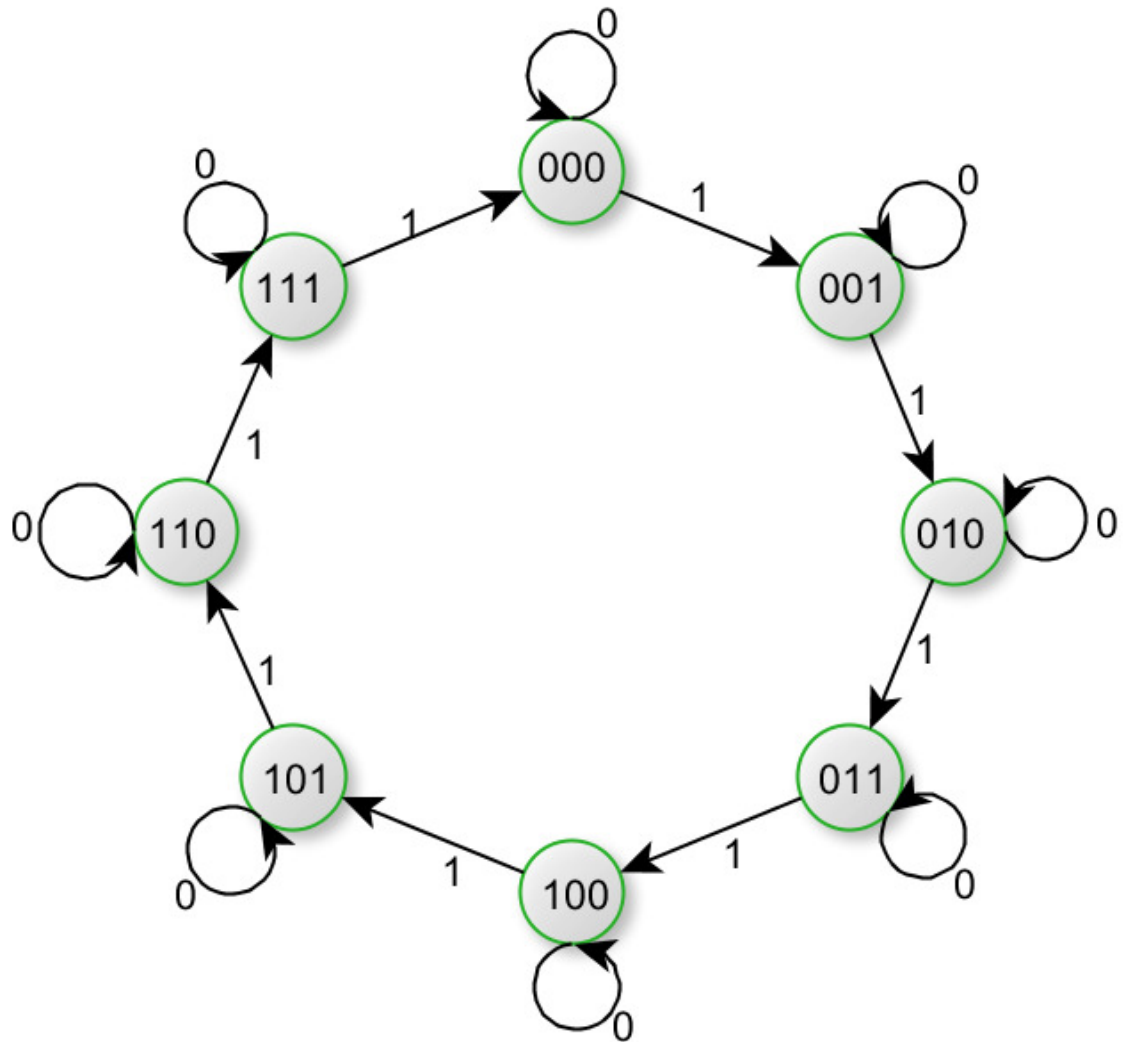


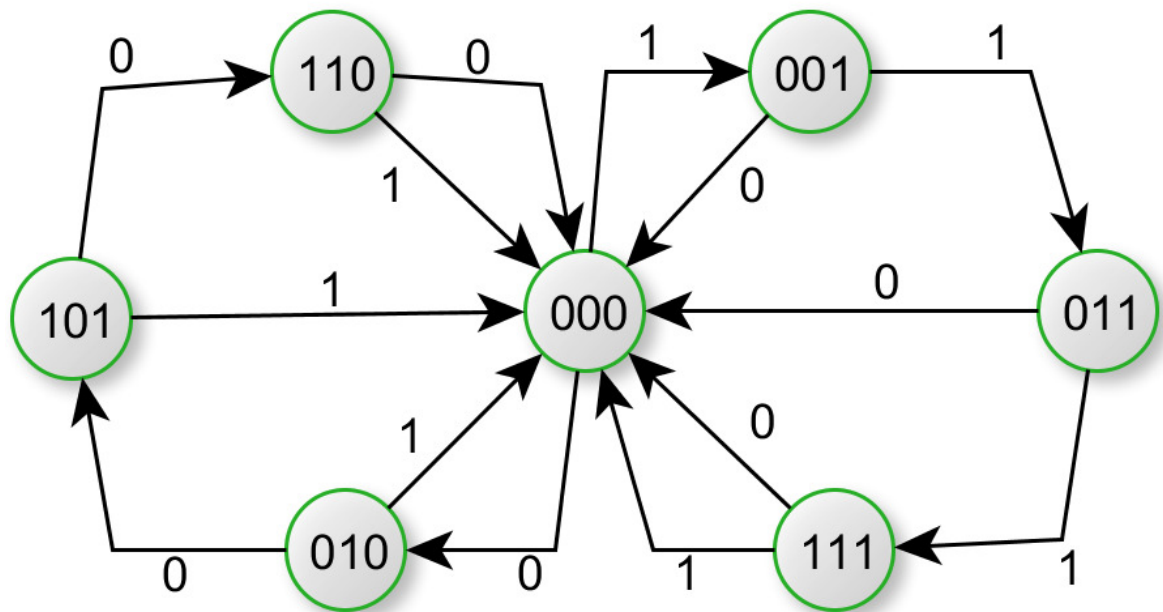
.Answers

1. Symbology Format S



2)

Symbology Format I



Dss Tutorial pt 1 answers

$$J_a = A./B + /B.C$$

$$K_a = B$$

$$J_b = /X./B + /B.C$$

$$K_b = B$$

$$J_c = /A .X$$

$$K_c = /X+B$$

$$f = A.B.C.X$$

$$J_a = A./B + /B.C$$

	AB				
C X		0 0	0 1	1 1	1 0
	0 0	0	0	0	1
	0 1	0	0	0	1
	1 1	1	0	0	1
	1 0	1	0	0	1

$$K_a = B$$

	AB				
C X		0 0	0 1	1 1	1 0
	0 0	0	1	1	0
	0 1	0	1	1	0
	1 1	0	1	1	0
	1 0	0	1	1	0

$$J_b = /X./B + /B.C$$

	AB				
C X		0 0	0 1	1 1	1 0
	0 0	1	0	0	1
	0 1	0	0	0	0
	1 1	1	0	0	1
	1 0	1	0	0	1

$$K_b = B$$

	AB				
C X		0 0	0 1	1 1	1 0
	0 0	0	1	1	0
	0 1	0	1	1	0
	1 1	0	1	1	0
	1 0	0	1	1	0

Dss Tutorial pt 1 answers

$$J_c = \overline{A} \cdot X$$

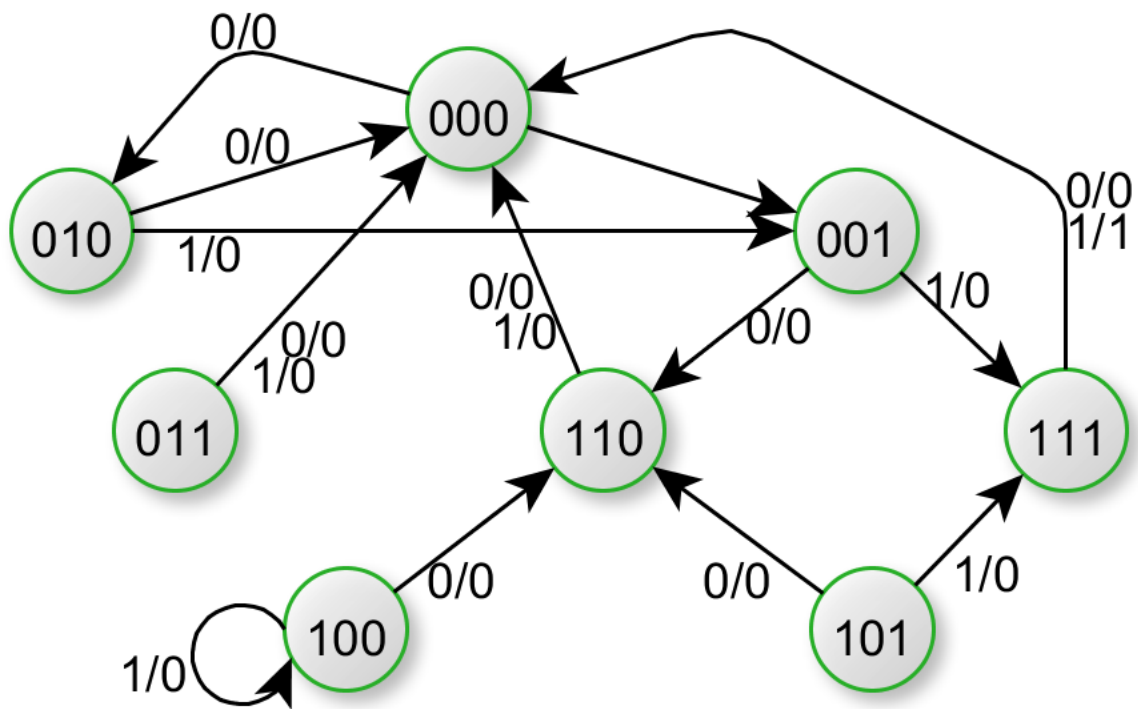
		AB			
C X		00	01	11	10
	00	0	0	0	0
	01	1	1	0	0
	11	1	1	0	0
	10	0	0	0	0

$$K_c = \overline{X} + B$$

		AB			
C X		00	01	11	10
	00	1	1	1	1
	01	0	1	1	0
	11	0	1	1	0
	10	1	1	1	1

Present					Next							true Next		
	A	B	C	X	Ja	Ka	Jb	Kb	Jc	Kc	o	A	B	C
	0	0	0	0	0	0	1	0	0	1	0	0	1	0
	0	0	0	1	0	0	0	0	1	0	0	0	0	1
	0	0	1	0	1	0	1	0	0	1	0	1	1	0
	0	0	1	1	1	0	1	0	1	0	0	1	1	1
	0	1	0	0	0	1	0	1	0	1	0	0	0	0
	0	1	0	1	0	1	0	1	1	1	0	0	0	1
	0	1	1	0	0	1	0	1	0	1	0	0	0	0
	0	1	1	1	0	1	0	1	1	1	0	0	0	0
	1	0	0	0	1	0	1	0	0	1	0	1	1	0
	1	0	0	1	1	0	0	0	0	0	0	1	0	0
	1	0	1	0	1	0	1	0	0	1	0	1	1	0
	1	0	1	1	1	0	1	0	0	0	0	1	1	1
	1	1	0	0	0	1	0	1	0	1	0	0	0	0
	1	1	0	1	0	1	0	1	0	1	0	0	0	0
	1	1	1	0	0	1	0	1	0	1	0	0	0	0
	1	1	1	1	0	1	0	1	0	1	1	0	0	0

Symbology format X/F



4) A twisted ring counter

Dss Tutorial pt 1 answers

5 answer

a) Class B moore

$$Da = X./A \quad Db = /X.B \quad f = /(/(/A./B./X) ./ (X.B))$$

A	B	X	F	/F
0	0	0	1	0
0	0	1	0	1
0	1	0	0	1
0	1	1	0	1
1	0	0	0	1
1	0	1	0	1
1	1	0	0	1
1	1	1	0	1

B	X	F	/F
0	0	0	1
0	1	0	1
1	0	0	1
1	1	1	0

$$F = /x./b./a + x.b$$

Present			Next		
A	B	X	Da	Db	F
0	0	0	0	0	1
0	0	1	1	0	0
0	1	0	0	1	0
0	1	1	1	0	1
1	0	0	0	0	0
1	0	1	0	0	0
1	1	0	0	1	0
1	1	1	0	0	1

Symbology

format X/F

