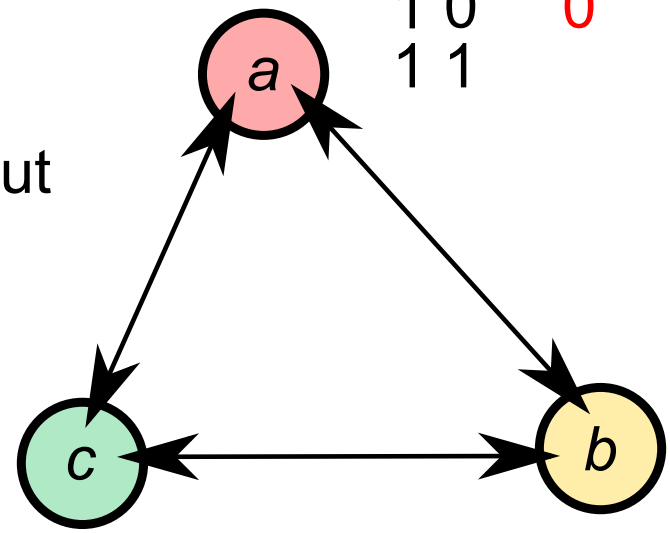
A



input		output
b	*c*	*a*
0	0	
0	1	1
1	0	0
1	1	

input		output
a	*b*	*c*
0	0	
0	1	0
1	0	1
1	1	

input		output
a	*c*	*b*
0	0	1
0	1	
1	0	
1	1	0

B

now			next		
a	*b*	*c*	*a*	*b*	*c*
0	0	0			1
0	0	1	1		
0	1	0	0	1	0
0	1	1			0
1	0	0			1
1	0	1	1	0	1
1	1	0	0		
1	1	1		0	

C

now			next		
a	*b*	*c*	*a*	*b*	*c*
0	0	0	**0**	1	**0**
0	0	1	1		**0**
0	1	0	0	1	0
0	1	1			0
1	0	0	**0**		1
1	0	1	1	0	1
1	1	0	0		
1	1	1		0	

D

now			next		
a	*b*	*c*	*a*	*b*	*c*
0	0	0	0	1	0
0	0	1	1		0
0	1	0	0	1	0
0	1	1	**1**		0
1	0	0	0		1
1	0	1	1	0	1
1	1	0	0		**1**
1	1	1	**1**	0	**1**