

a)

1	→	1	→	2	→	2
2	→	3	→	2	→	3
4	→	4	→	3	→	3
2	→	4	→	4	→	4

b)

	1	2	3	4
1	1	1	0	0
2	0	1	2	1
3	0	1	1	0
4	0	0	1	3