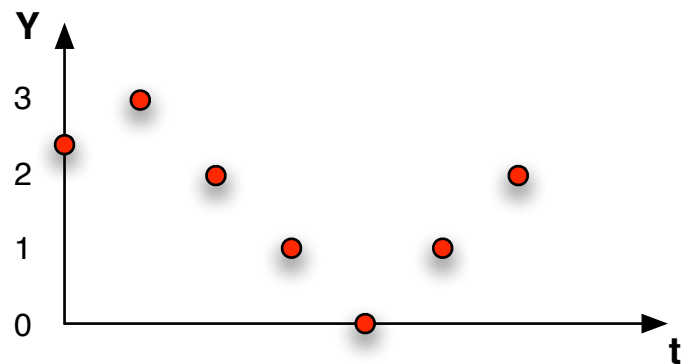
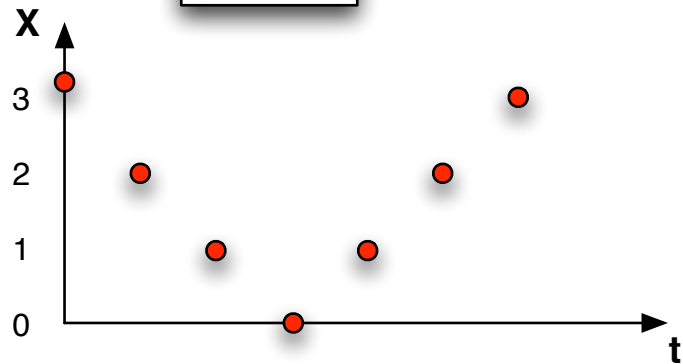


SHO_Energy_Conservation_2

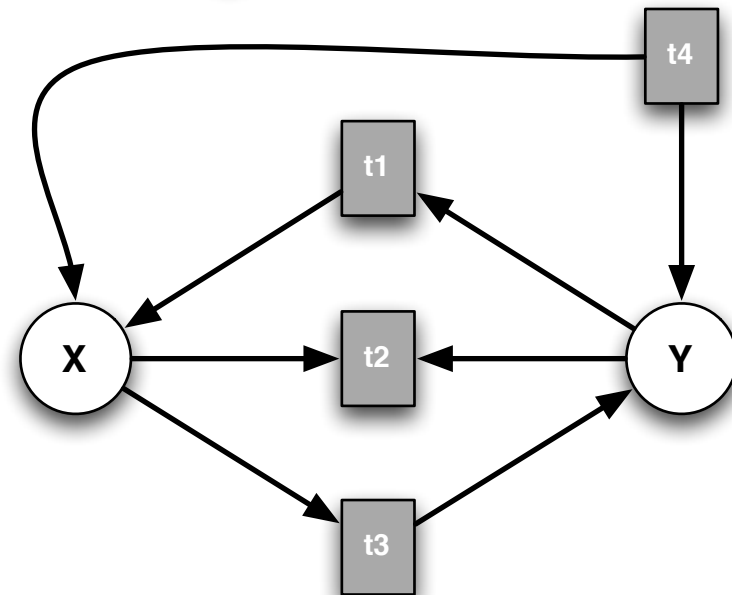
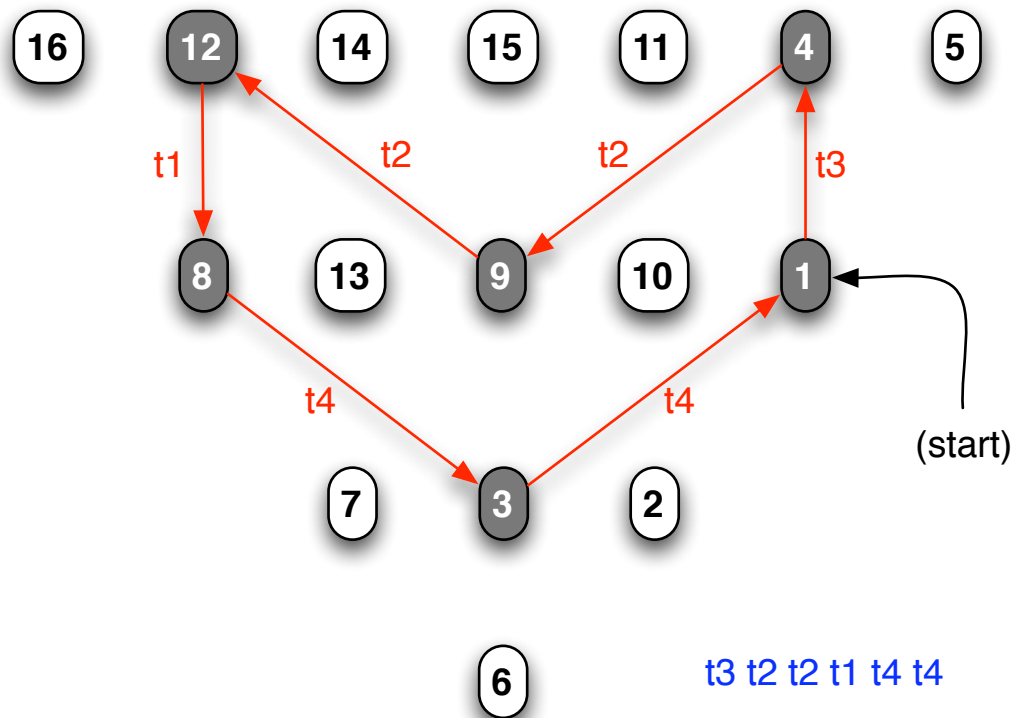
SHO_V5



32	1
31	2
21	3
23	4
33	5
30	6
20	7
10	8
12	9
22	10
13	11
01	12
11	13
02	14
03	15
00	16

```

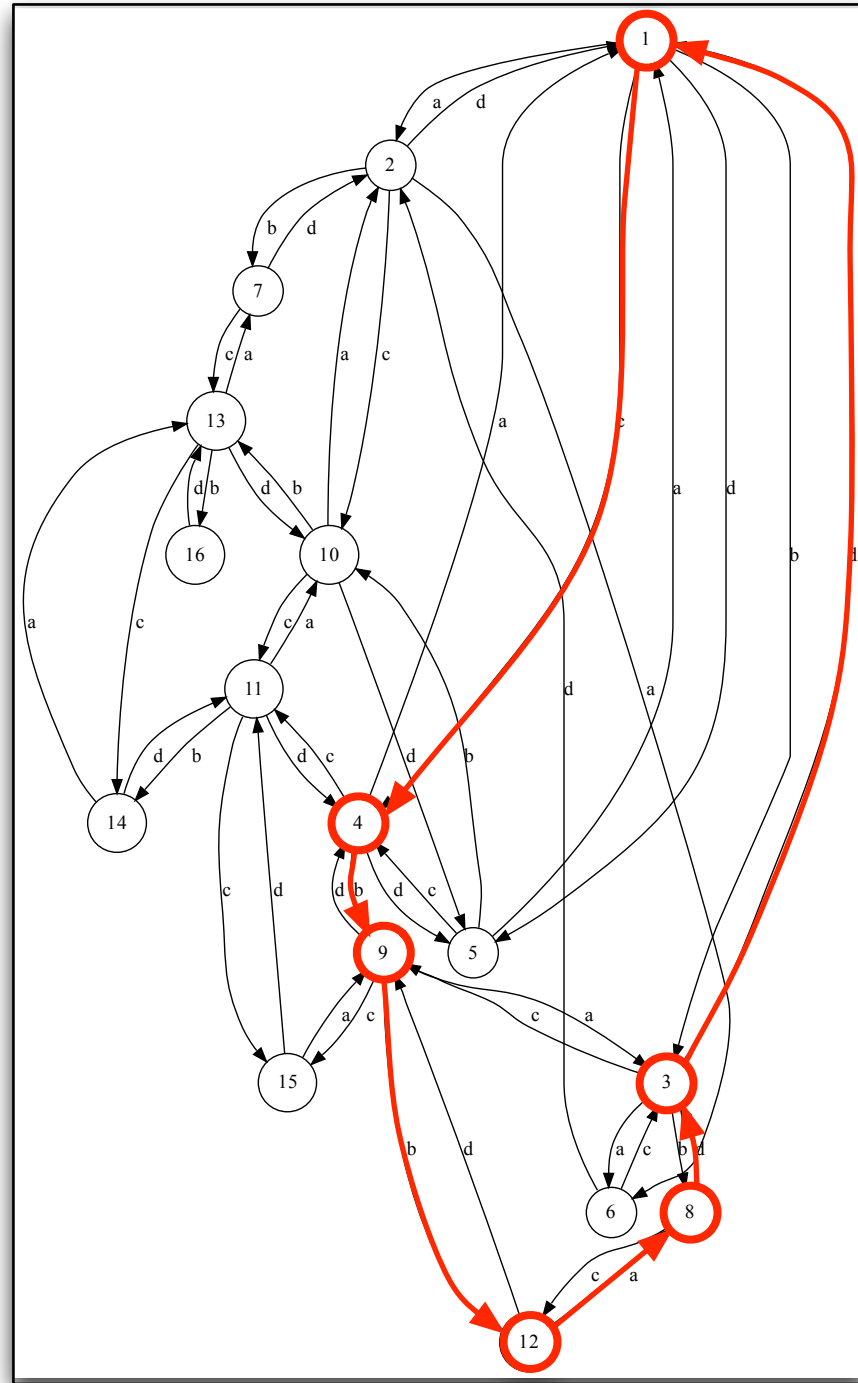
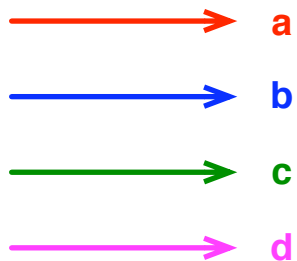
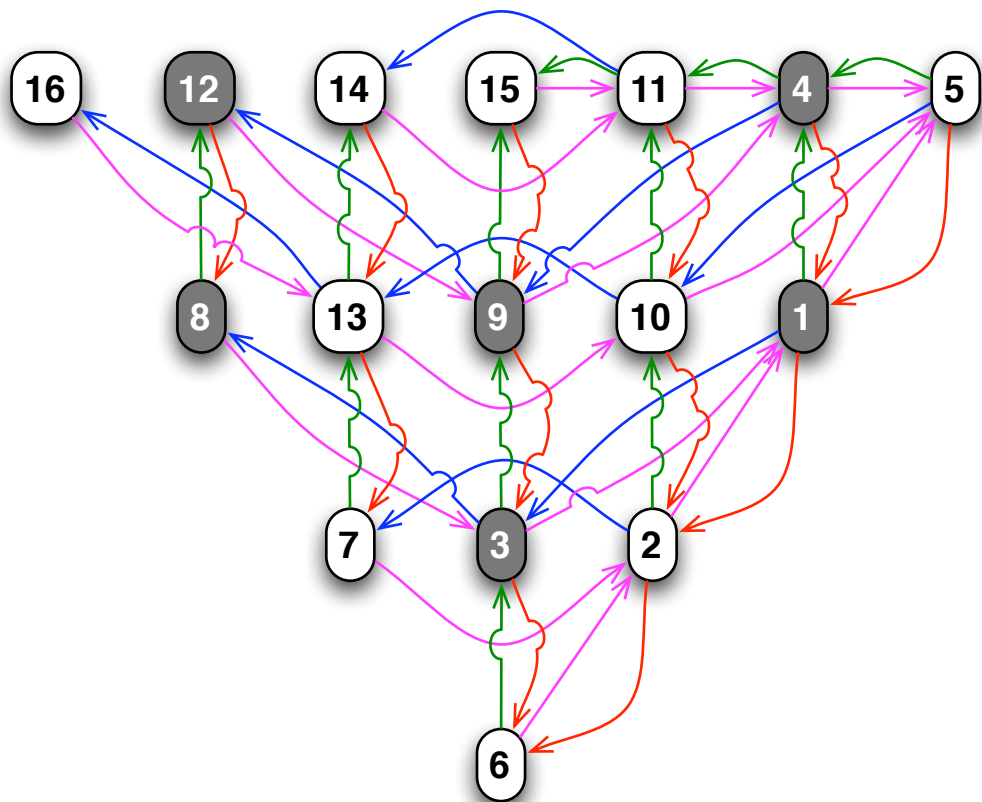
petrinet := rec(
  inputs:= [[0,1,1,0],
            [1,1,0,0]
            ],
  outputs := [[1,0],
              [0,0],
              [0,1],
              [1,1]
              ],
  inhibcons := [[0,0,0,0],
                [0,0,0,0]
                ],
  capacity := [3,3],
  initial := [[3,2]]
);
  
```



SHO_Energy_Conservation_2_Automaton

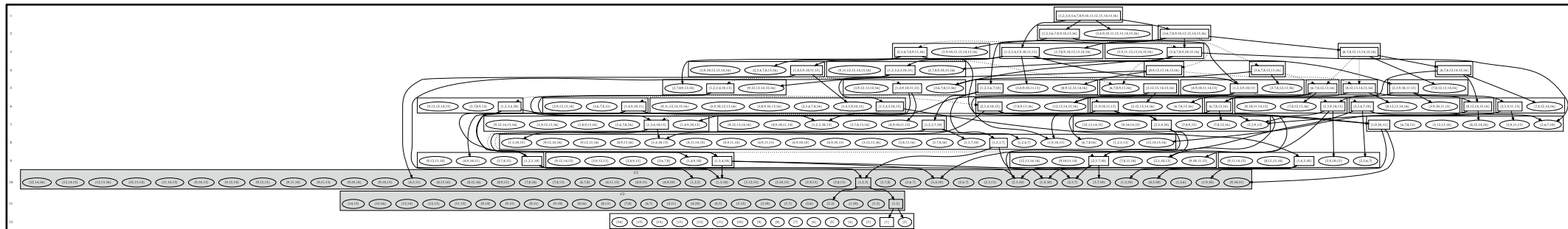
SHO_V5

Cycle corresponding to SHO motion: c,b,b,a,d,d

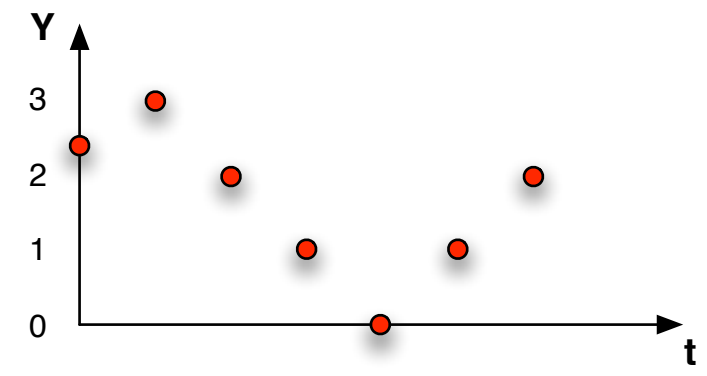
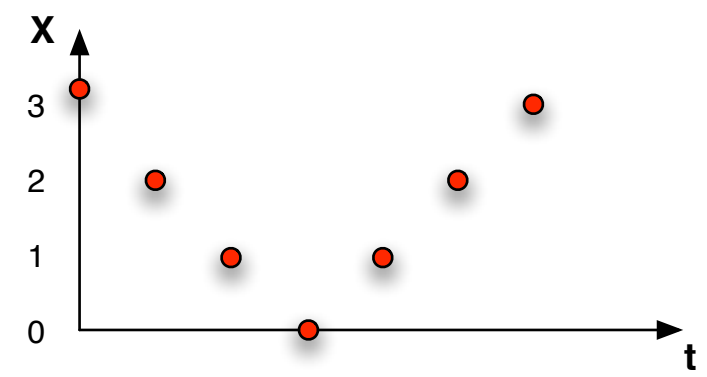


SHO_Energy_Conservation_2_Holonomy_Dec

SHO_V5

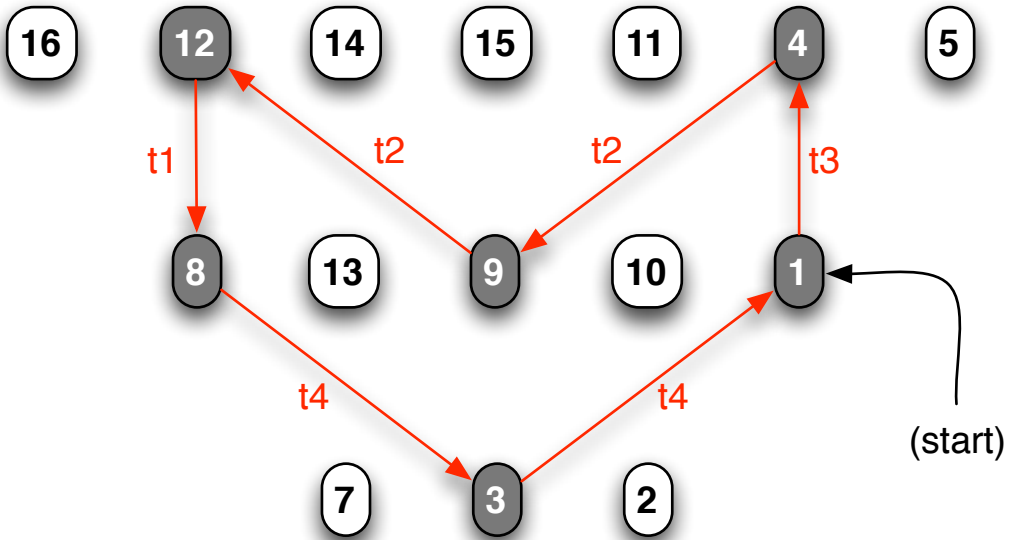


SHO_V6

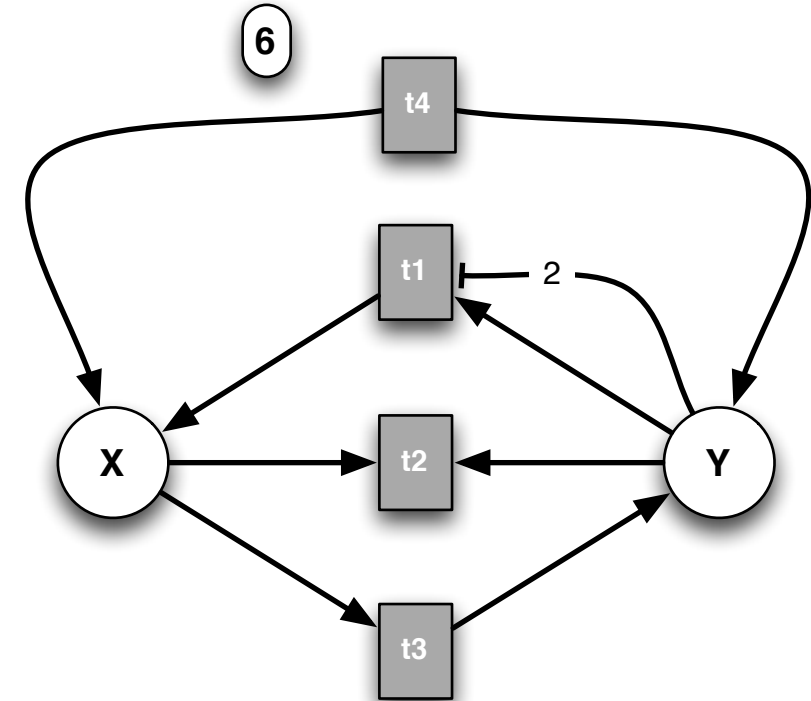


32	1
31	2
21	3
23	4
33	5
30	6
20	7
10	8
12	9
22	10
13	11
01	12
11	13
02	14
03	15
00	16

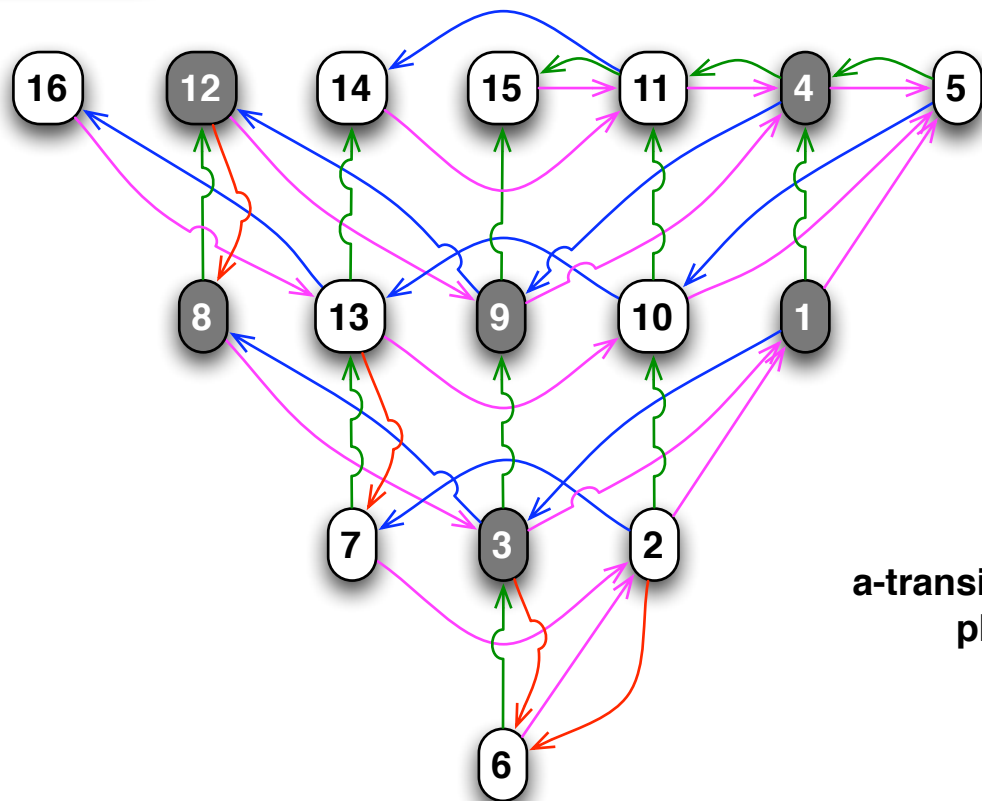
```
petrinet := rec(  
  inputs:= [[0,1,1,0],  
            [1,1,0,0]  
            ],  
  outputs := [[1,0],  
              [0,0],  
              [0,1],  
              [1,1]  
              ],  
  inhibcons := [[0,0,0,0],  
                [2,0,0,0]  
                ],  
  capacity := [3,3],  
  initial := [[3,2]]  
);
```



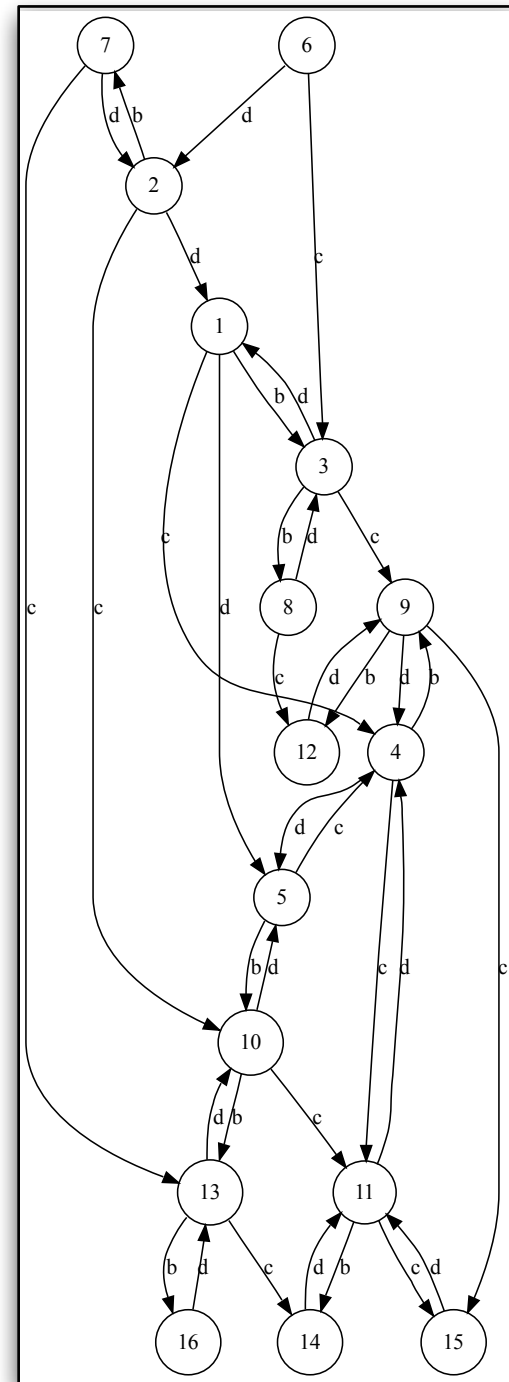
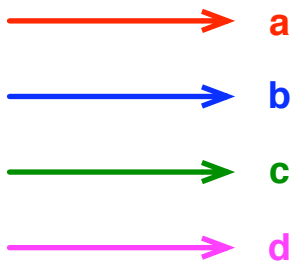
t3 t2 t2 t1 t4 t4

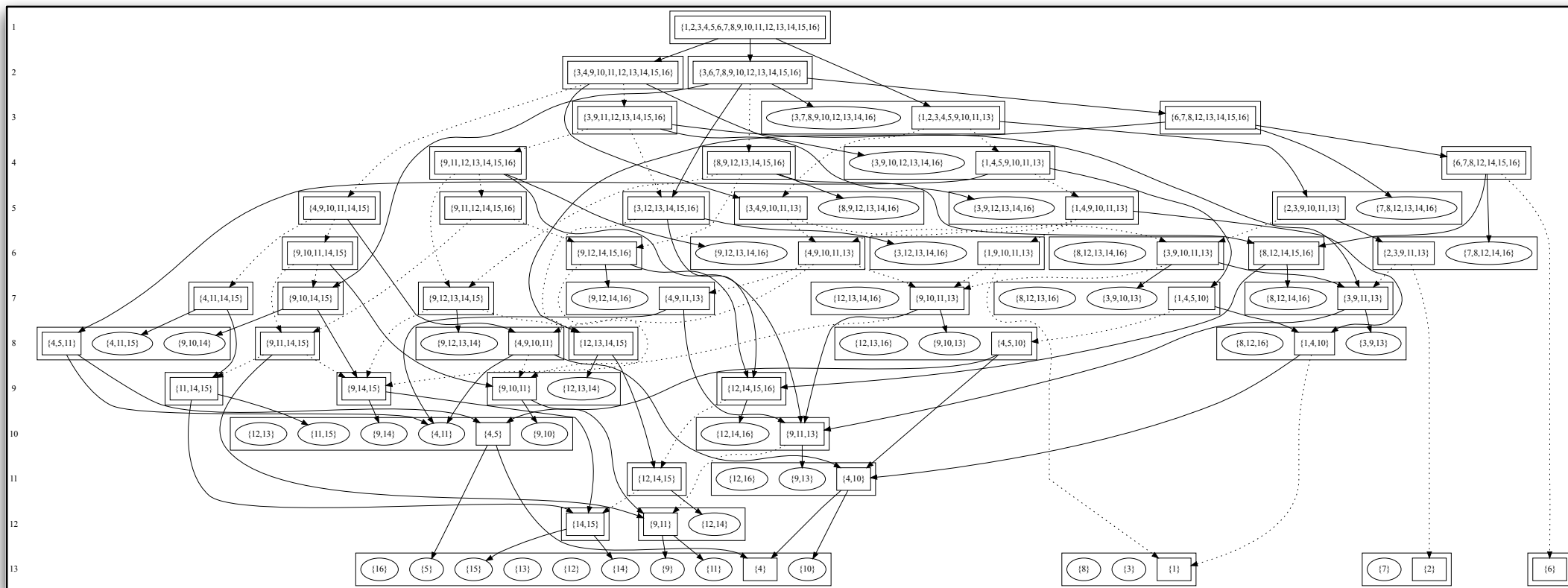


SHO_V6

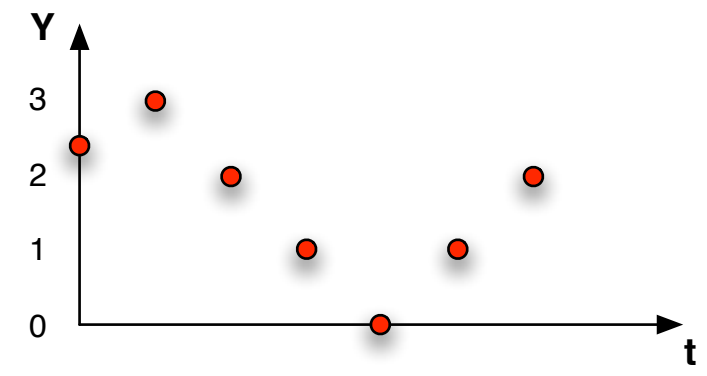
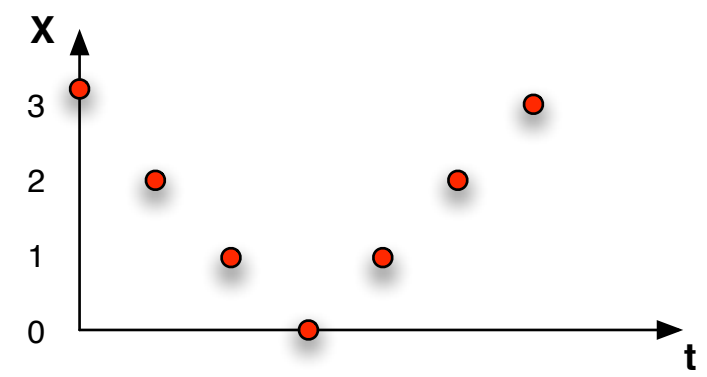


This automaton is not right:
a-transition from 12 to 8 is missing,
plus a few others (see on left)



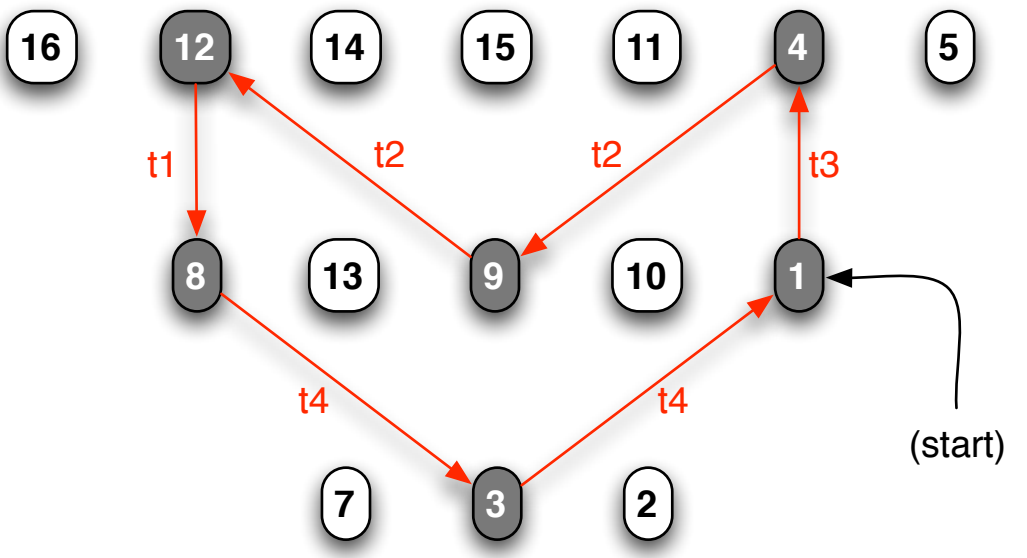


SHO_V7

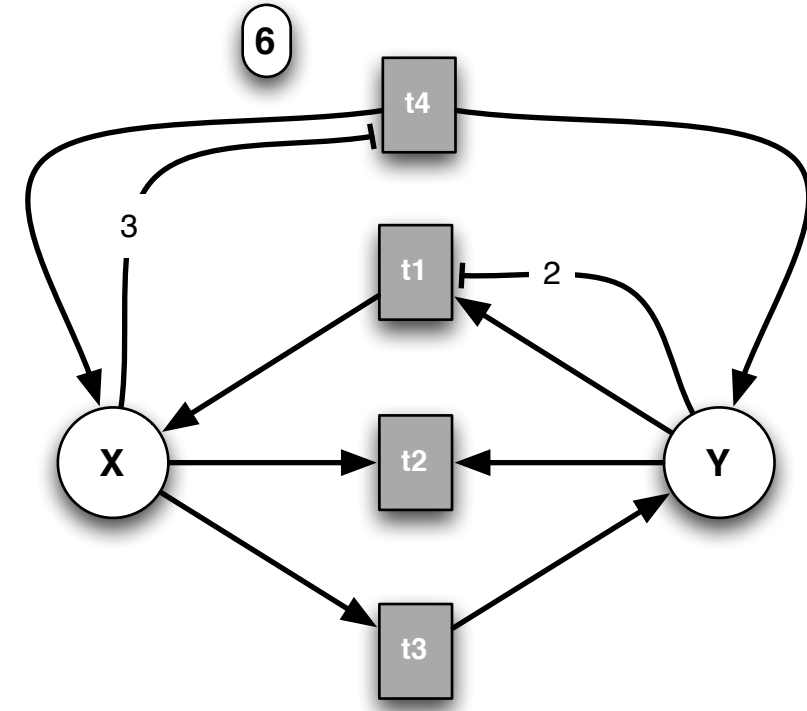


32	1
31	2
21	3
23	4
33	5
30	6
20	7
10	8
12	9
22	10
13	11
01	12
11	13
02	14
03	15
00	16

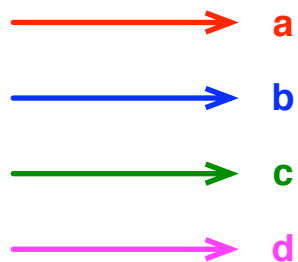
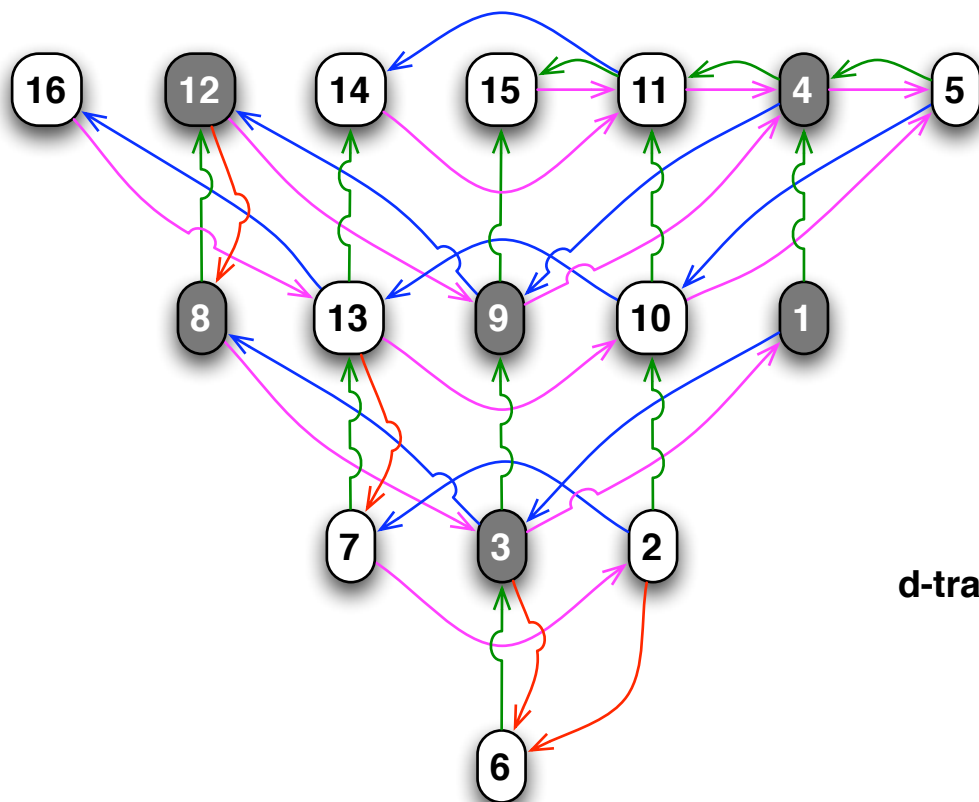
```
petrinet := rec(  
  inputs:= [[0,1,1,0],  
            [1,1,0,0]  
            ],  
  outputs := [[1,0],  
              [0,0],  
              [0,1],  
              [1,1]  
              ],  
  inhibcons := [[0,0,0,3],  
                [2,0,0,0]  
                ],  
  capacity := [3,3],  
  initial := [[3,2]]  
);
```



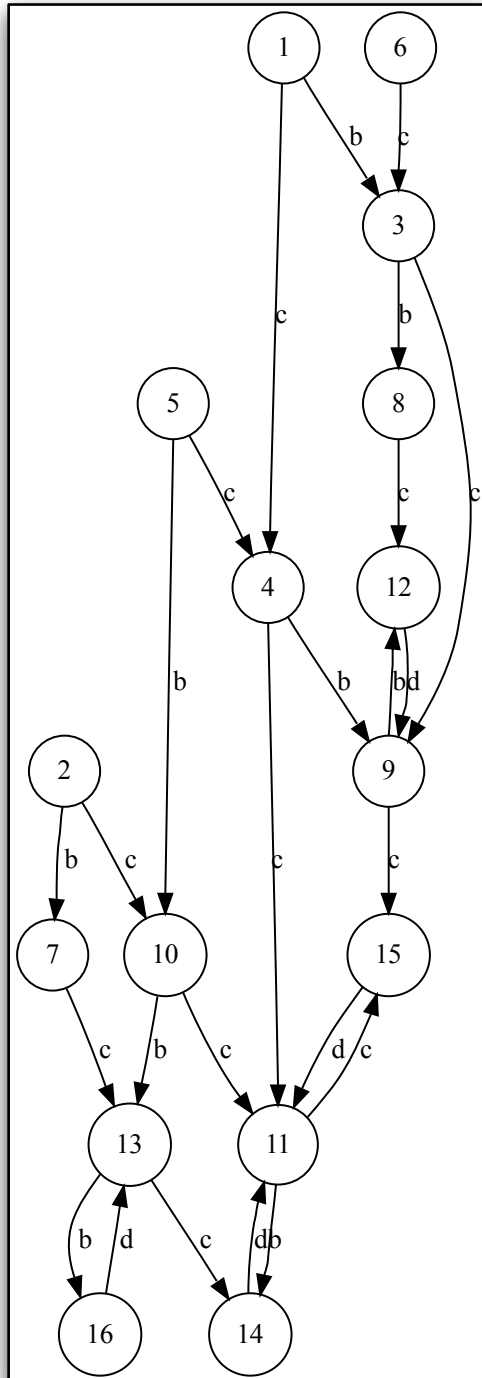
t3 t2 t2 t1 t4 t4

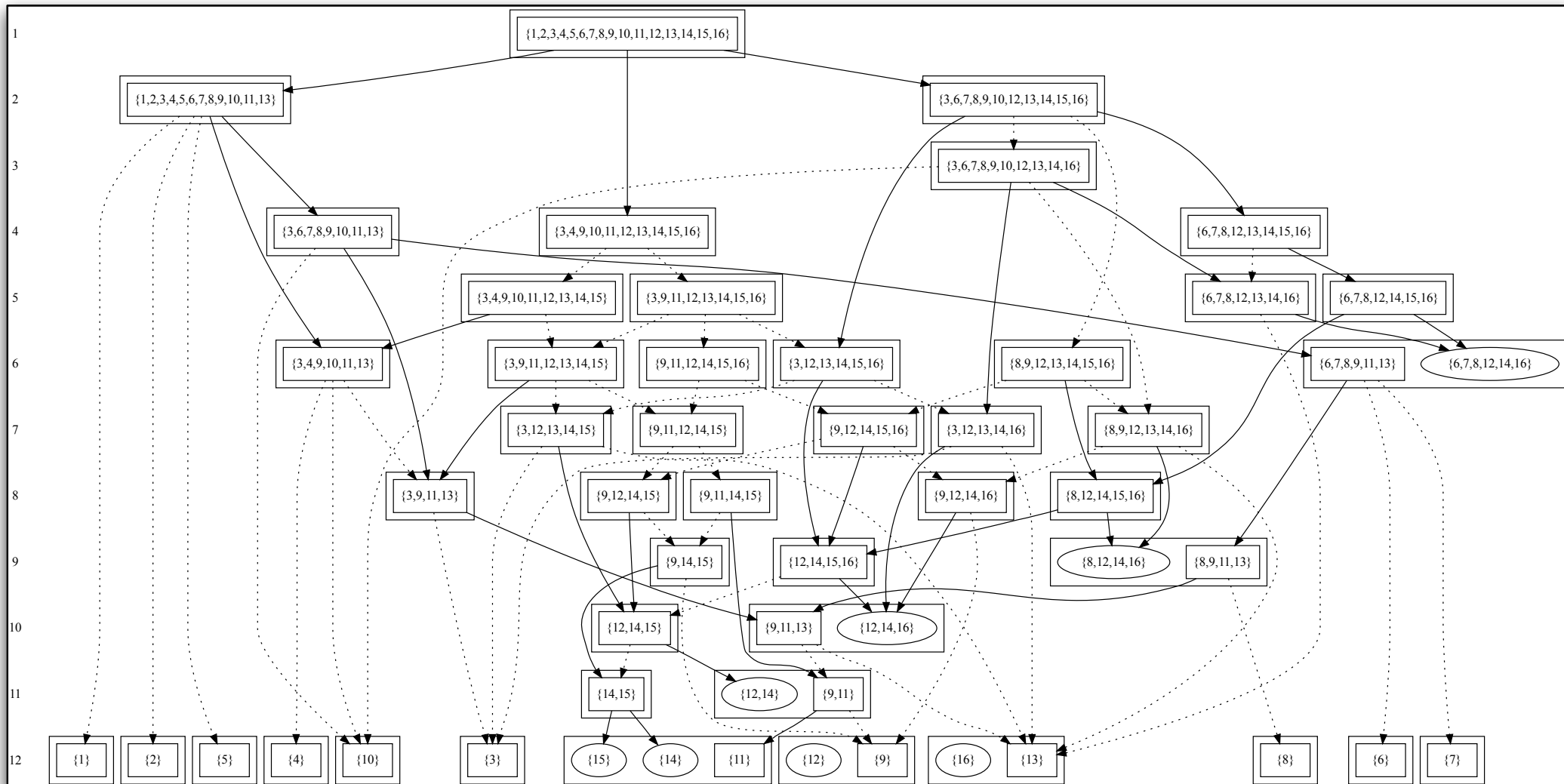


SHO_V7

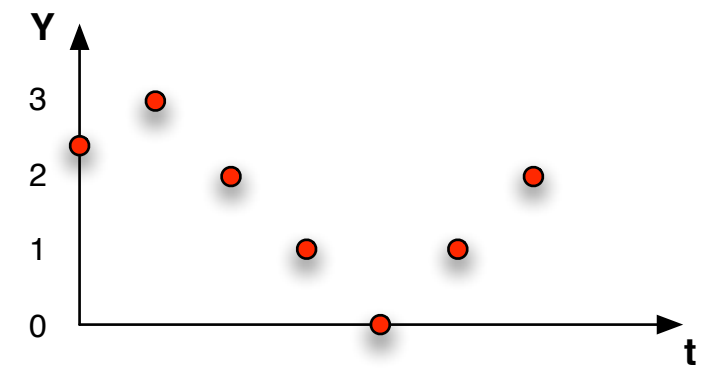
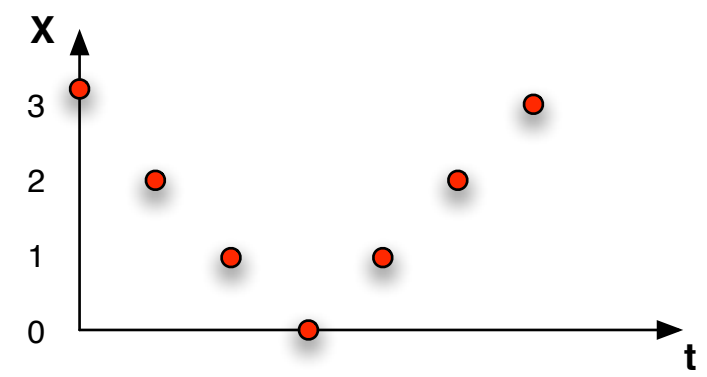


This automaton is not right:
d-transition from 3 to 1 is missing,
plus a few others (see on left)



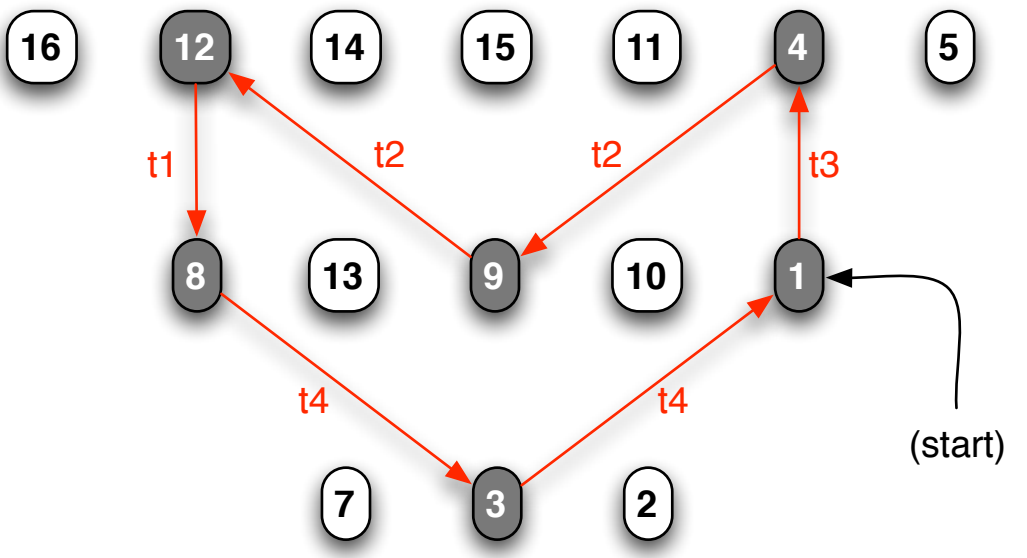


SHO_V8

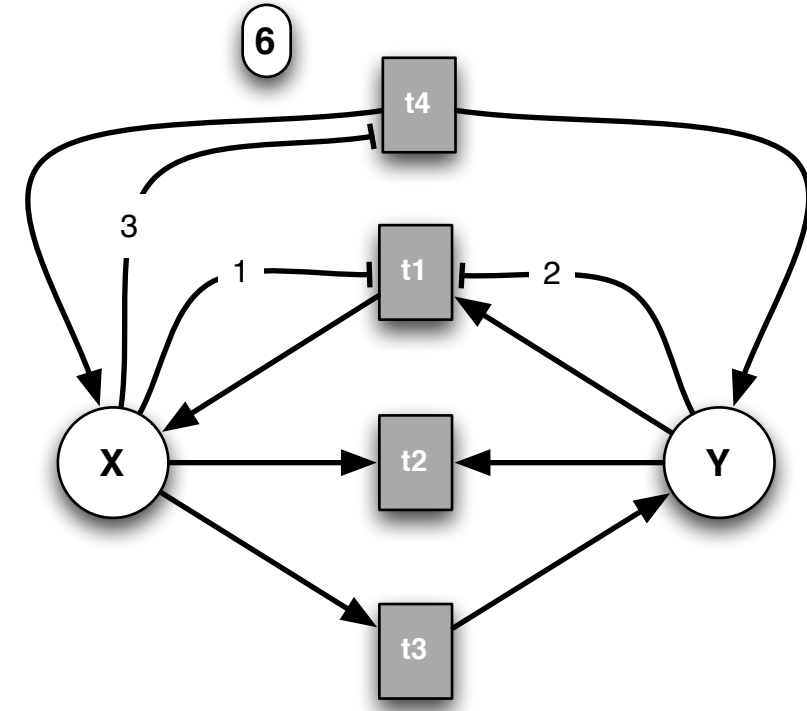


32	1
31	2
21	3
23	4
33	5
30	6
20	7
10	8
12	9
22	10
13	11
01	12
11	13
02	14
03	15
00	16


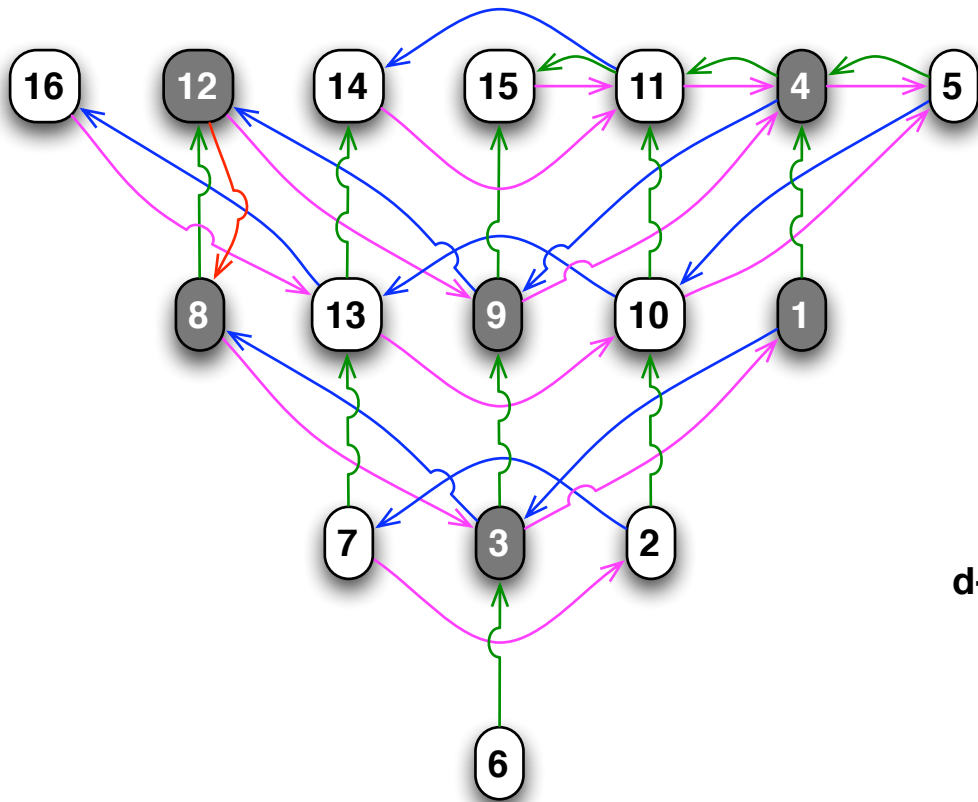
```
petrinet := rec(  
  inputs:= [[0,1,1,0],  
            [1,1,0,0]  
            ],  
  outputs := [[1,0],  
              [0,0],  
              [0,1],  
              [1,1]  
              ],  
  inhibcons := [[1,0,0,3],  
                [2,0,0,0]  
                ],  
  capacity := [3,3],  
  initial := [[3,2]]  
);
```



t3 t2 t2 t1 t4 t4

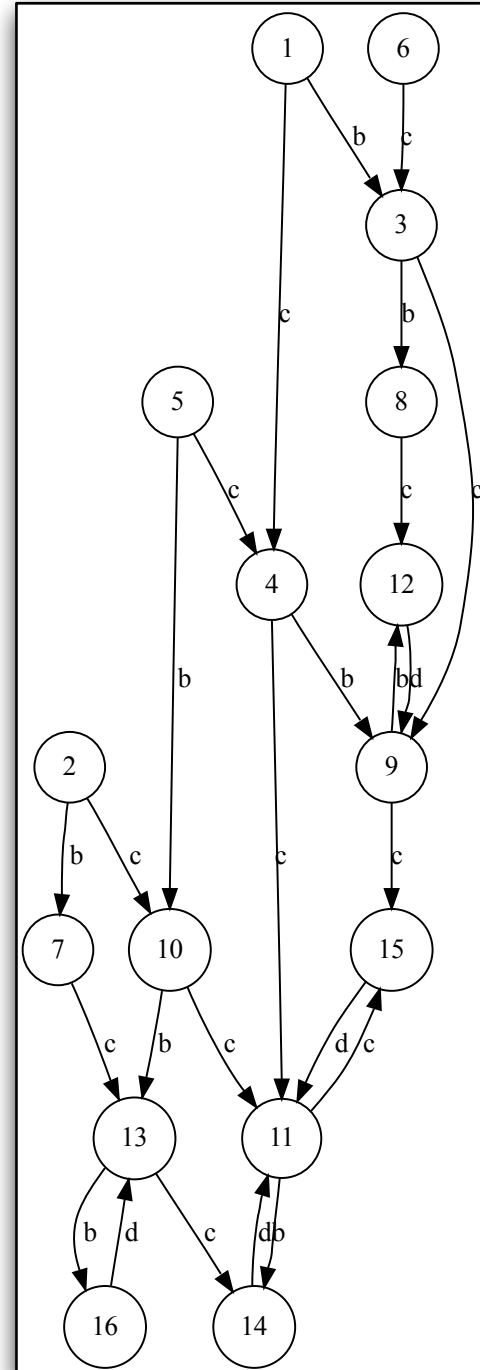


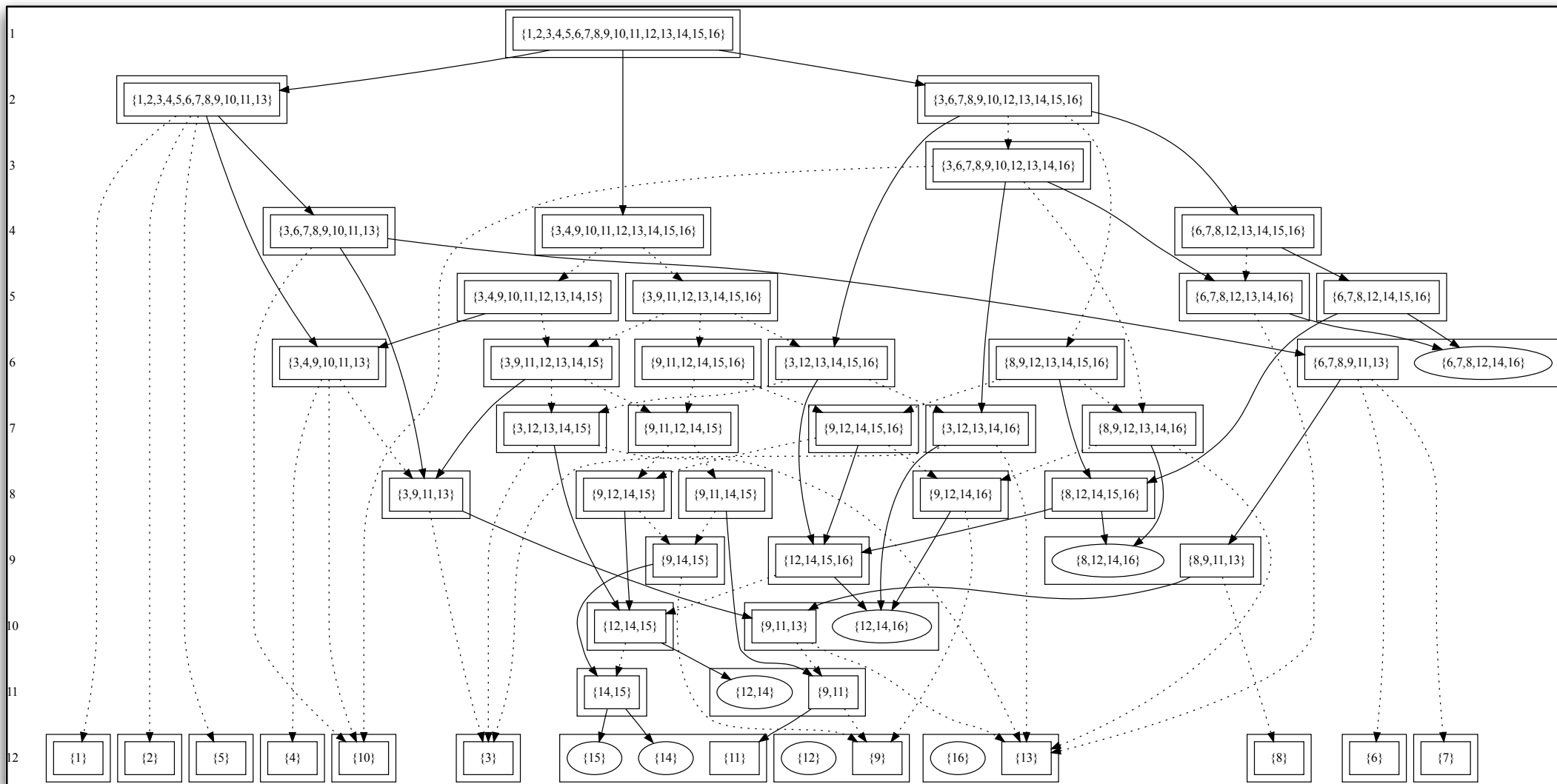
SHO_V8



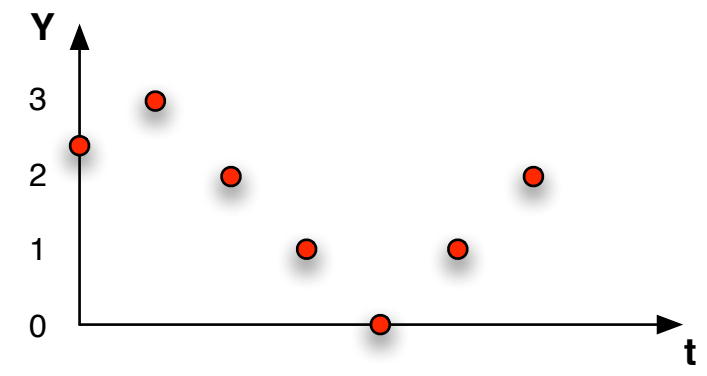
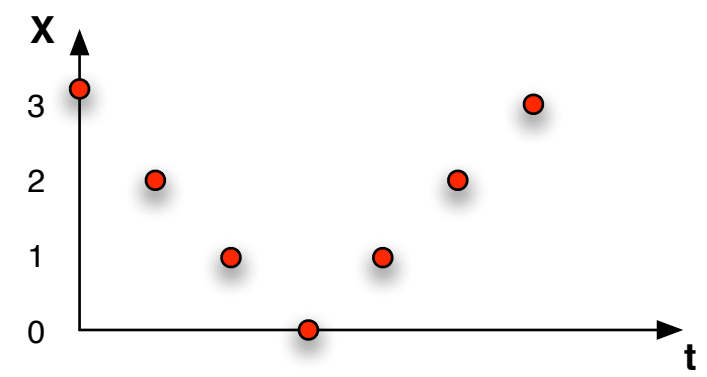
Four horizontal arrows pointing right, labeled a, b, c, and d from top to bottom. Arrow a is red, b is blue, c is green, and d is magenta.

**This automaton is not right:
d-transition from 8 to 3 is missing,
plus a few others (see on left)**



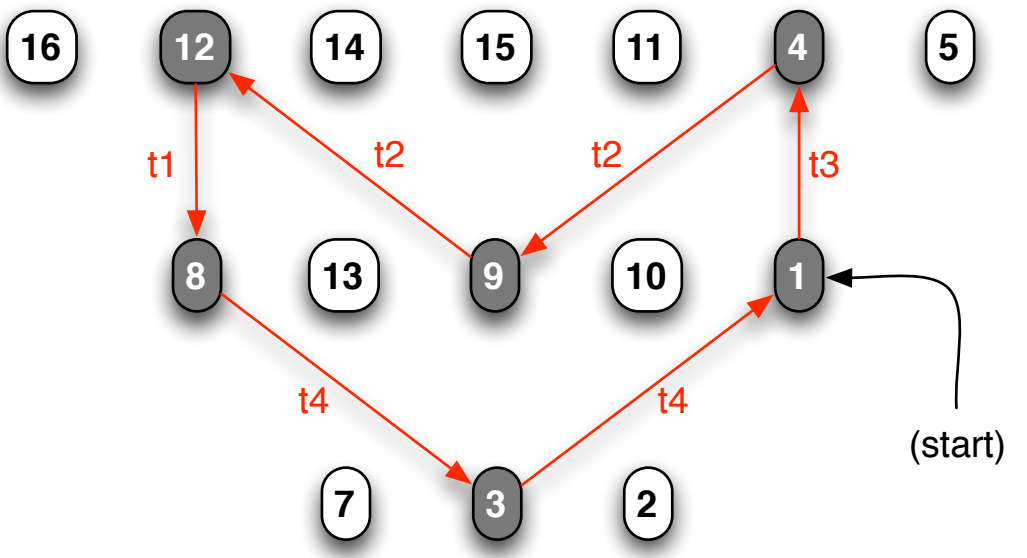


SHO_V9

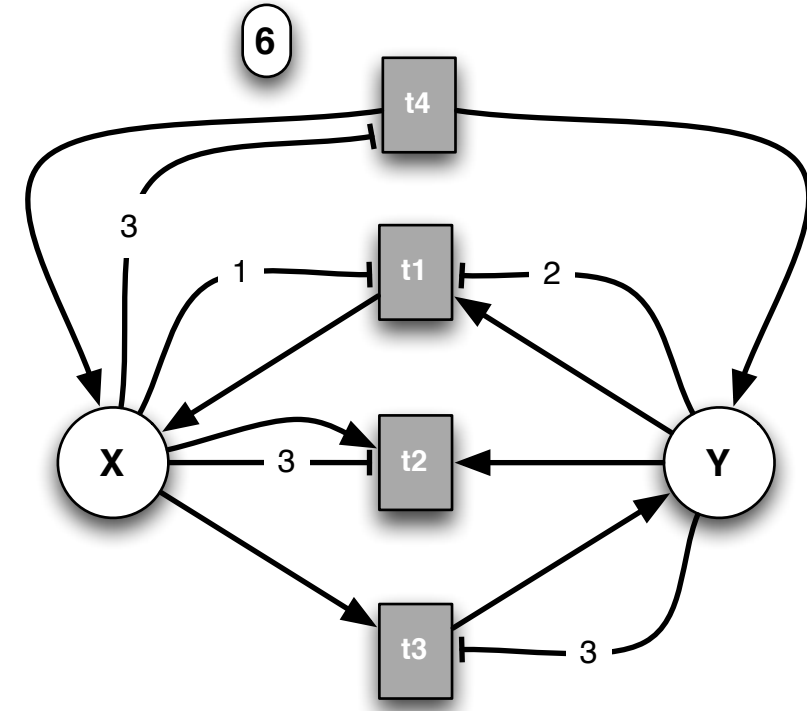


32	1
31	2
21	3
23	4
33	5
30	6
20	7
10	8
12	9
22	10
13	11
01	12
11	13
02	14
03	15
00	16

```
petrinet := rec(  
  inputs:= [[0,1,1,0],  
            [1,1,0,0]  
            ],  
  outputs := [[1,0],  
              [0,0],  
              [0,1],  
              [1,1]  
              ],  
  inhibcons := [[1,3,0,3],  
                [2,0,3,0]  
                ],  
  capacity := [3,3],  
  initial := [[3,2]]  
);
```



t3 t2 t2 t1 t4 t4



SHO_V9

