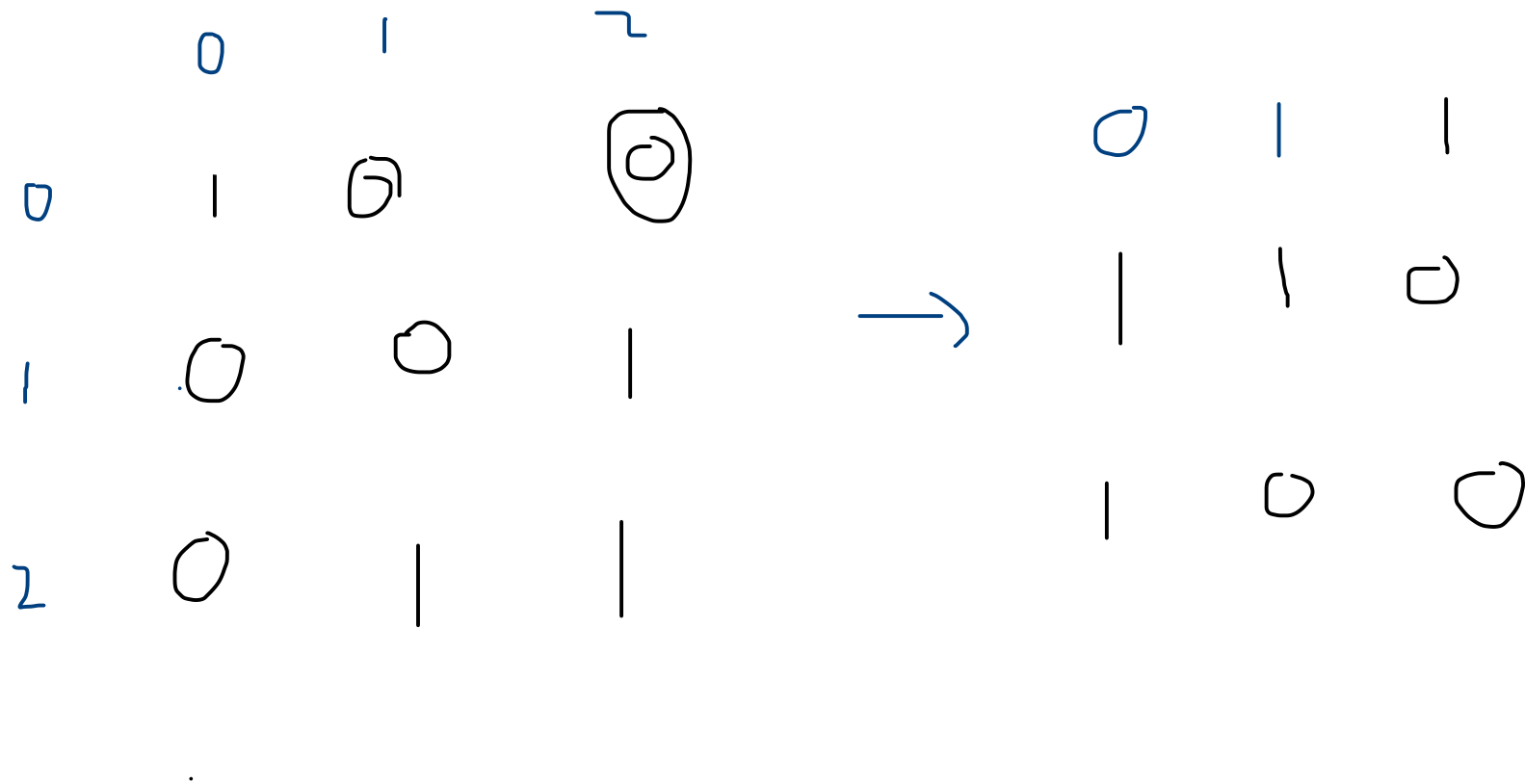
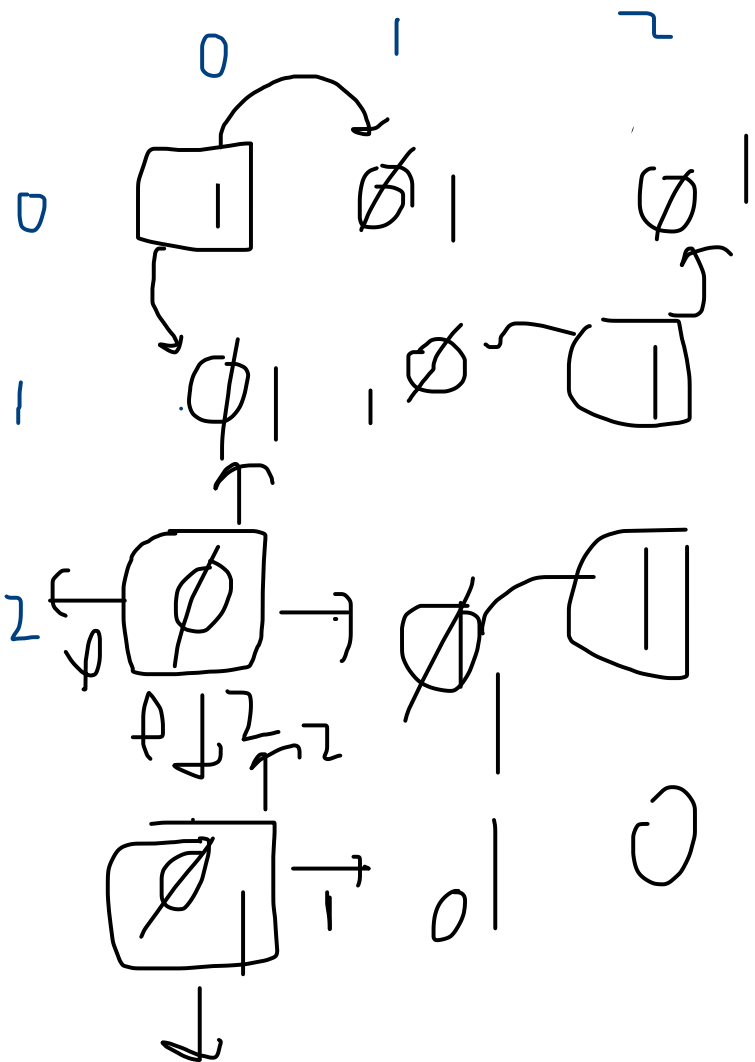
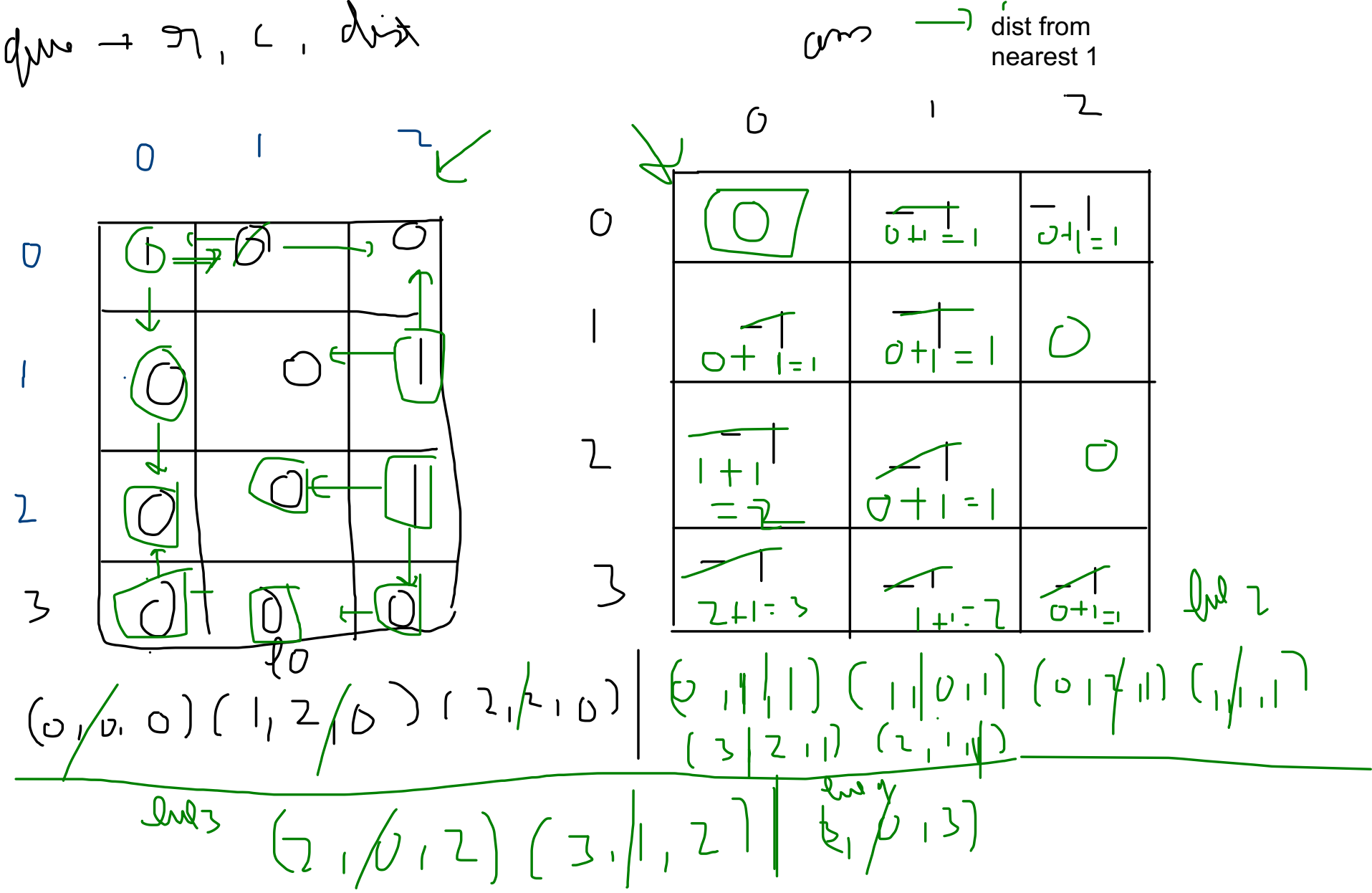
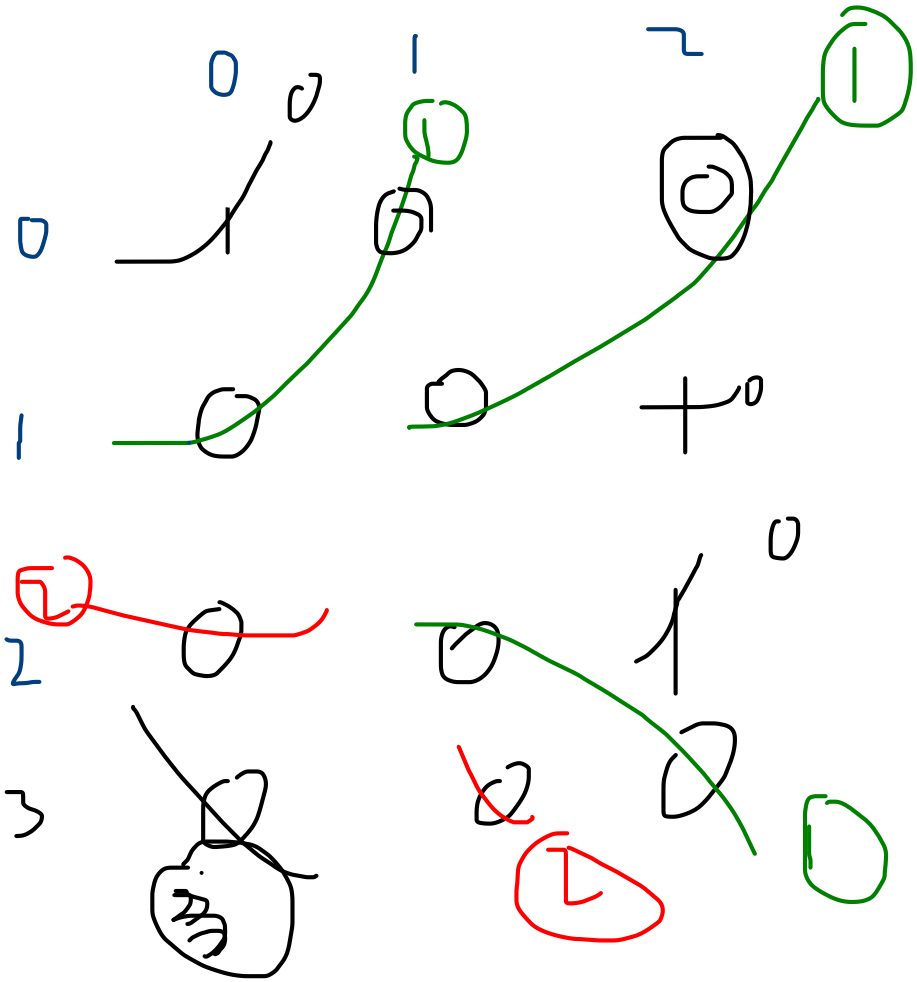
01 Matrix

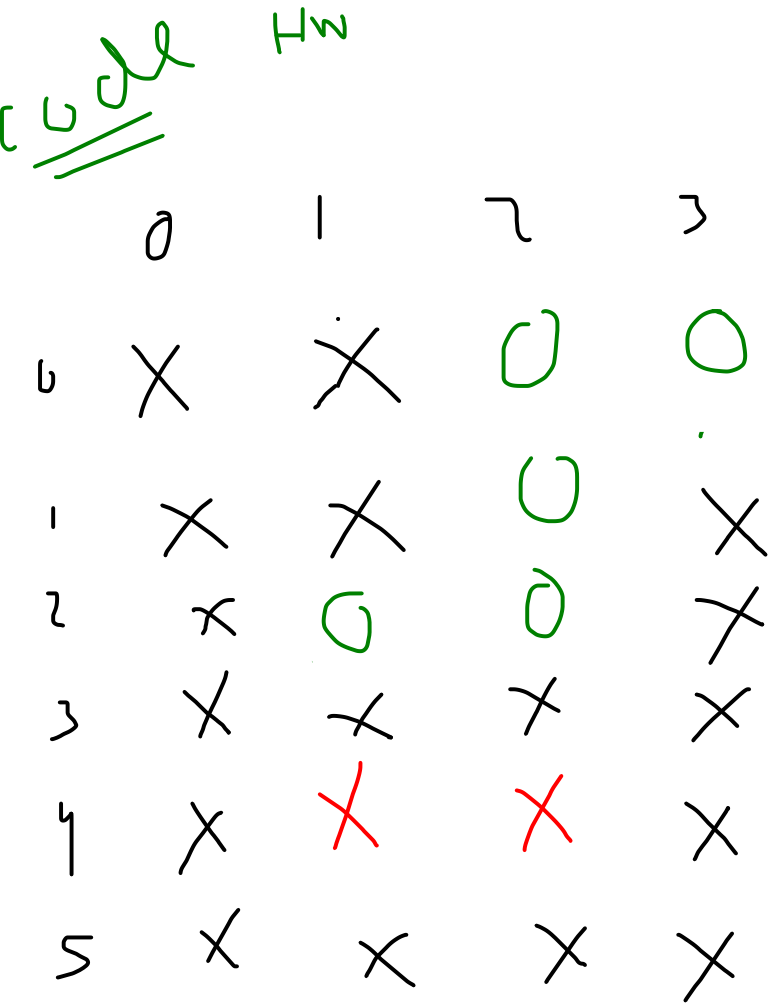





dist from nearest 1
0 1 2
0 1 2 3
0 1 2 3
0+1=1
0+1=1
0+1=1
0+1=1
1+1=2
0+1=1
2+1=3
1+1=2
0+1=1
(0,0,0) (1,2,0) (2,2,0)
(0,1,1) (1,0,1) (0,1,1) (1,1,1)
(3,2,1) (2,1,1)
(2,0,2) (3,1,2)
(2,0,3)

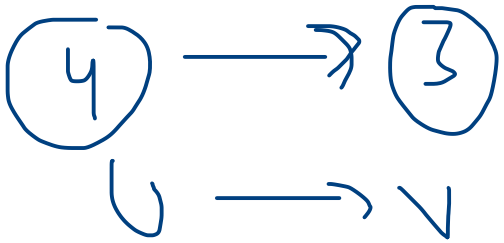


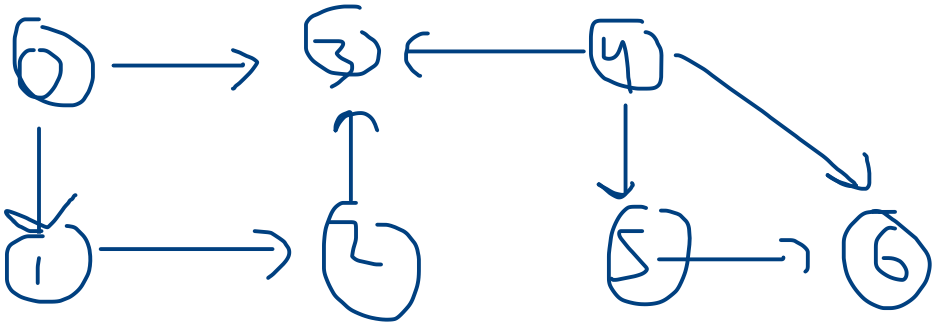
Surrounded Regions



Topological Sort (DFS)

DAG --> Directed Acyclic Graph

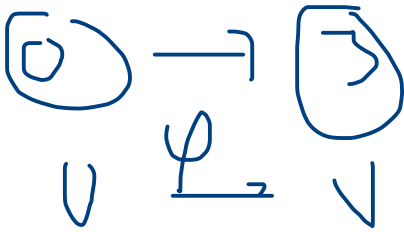


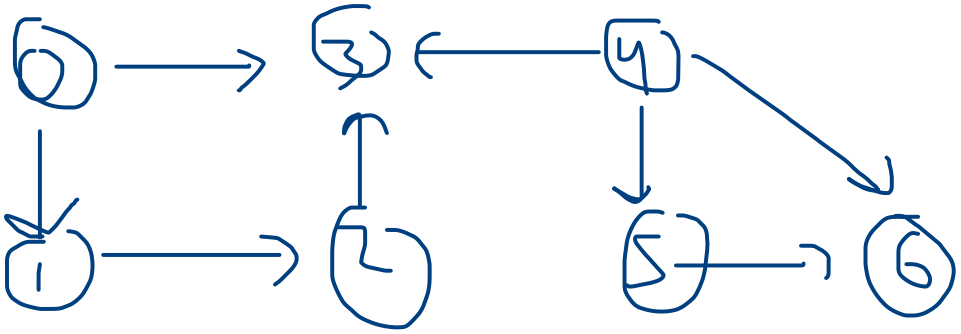


order

permutation of Vertices

such that for every edge between vertex U --> v, vertex U come before vertex V

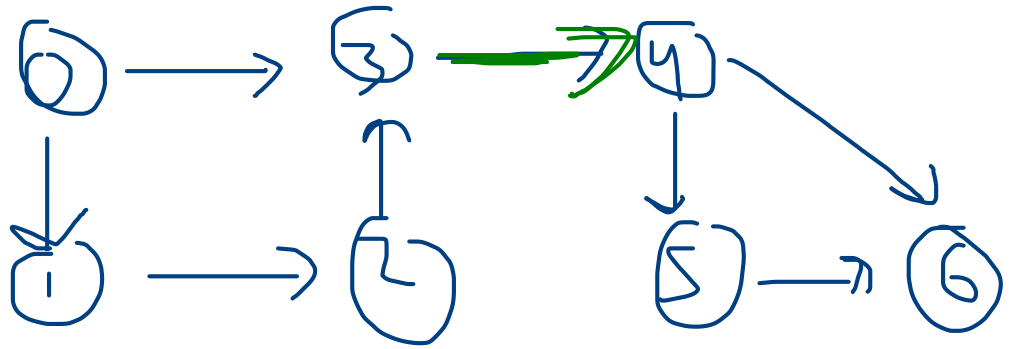




DAG

✓ ✓

4	0
5	1
6	2
0	4
1	5
2	6
3	3



0 ✓

1

2

3

4

5

6

~~0~~ 4

4

5

6

0

1

2

3

4

0

1

2

4

5

6

3