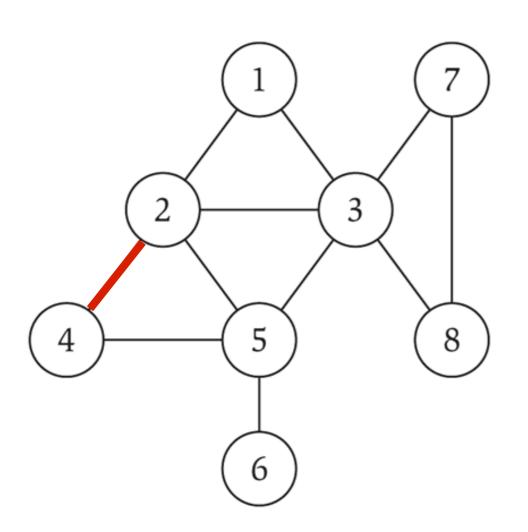
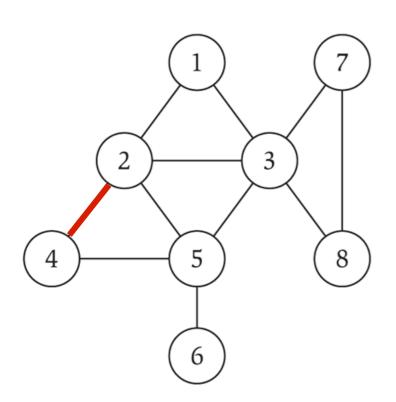
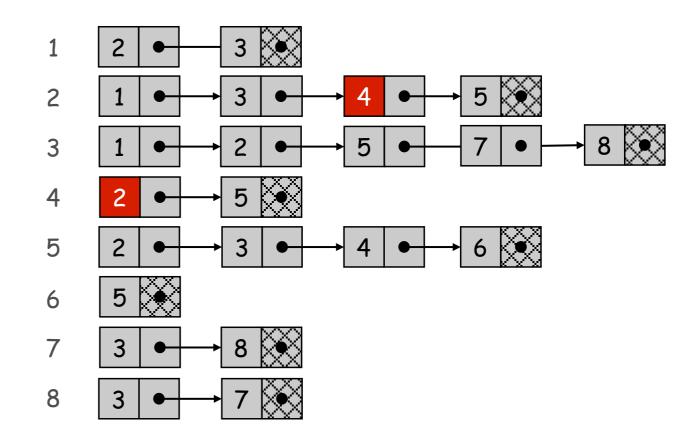
ADJACENCY MATRIX VISUALIZED



	1	2	3	4	5	6	7	8
1	0	1	1	0	0	0	0	0
2	1	0	1	1	1	0	0	0
3	1	1	0	0	1	0	1	1
4	0	1	0		1	0	0	0
5	0	1	1	1	0	1	0	0
6	0	0	0	0	1	0	0	0
7	0	0	1	0	0	0	0	1
8	0	0	1	0	0	0	1	0

ADJACENCY LISTS VISUALIZED



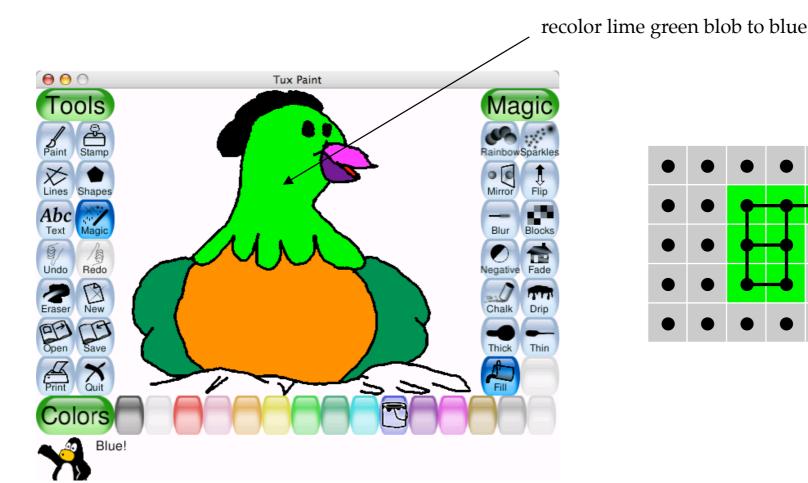


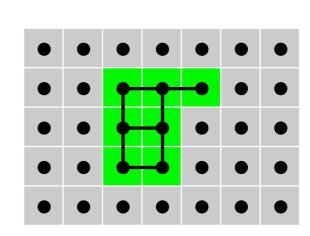
CONNECTED COMPONENTS: PRACTICALLY

Flood Fill

Given a lime green pixel in an image, change the color of the entire blob of neighboring lime pixels to blue.

- Node: pixel
- Edge: two neighboring lime pixels
- Blob: connected component of lime pixels





return all explored nodes

```
BFS(u):
mark u as discovered and store in queue Q
while Q is not empty
   dequeue v from Q
   for each edge (v,w):
      if w is not discovered:
         mark w as discovered
         append w to Q
                                   can think of it
         //add edge (v,w) to T
                                   constructing BFS
                                   tree T
```

return all discovered nodes

Topological order visualized

