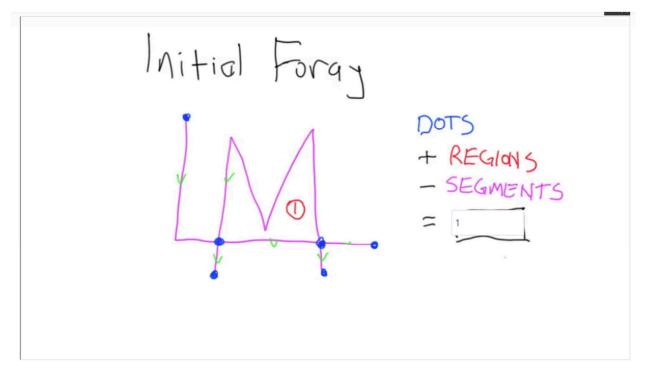
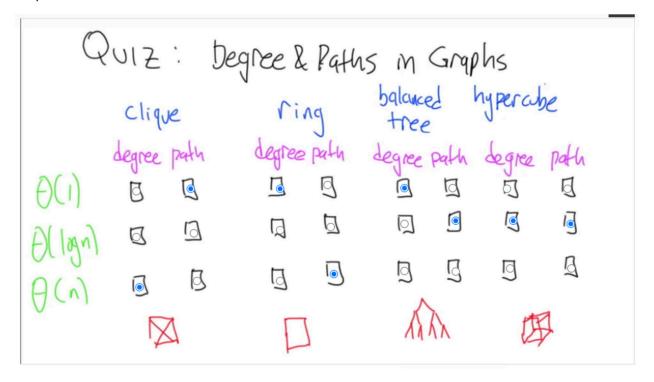
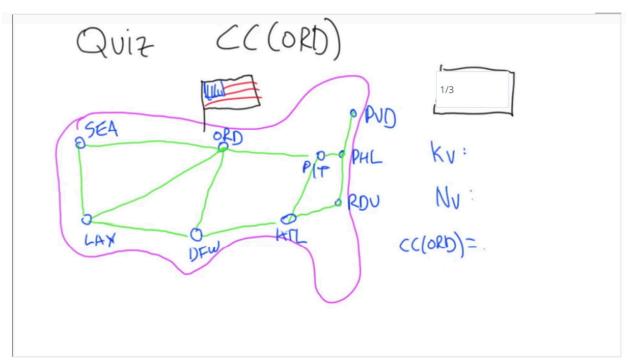
Initial Foray



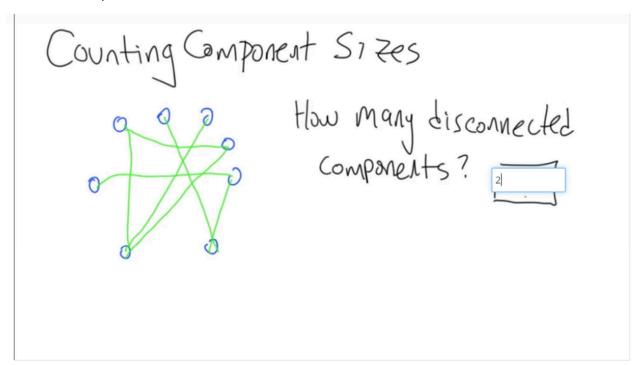
Properties of Social Networks



Clustering Coefficient Quiz



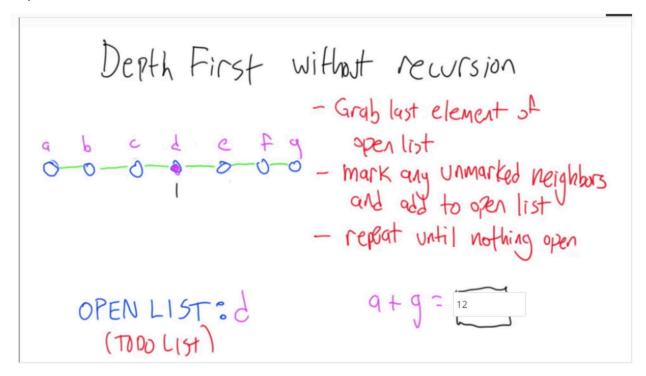
Connected Components

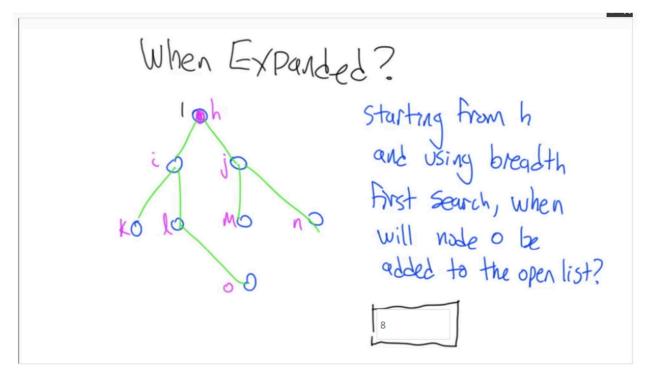


Checking Pairwise Connectivity

```
def check_connection(G, v1, v2):
    marked = {}
    mark_component (G,v1,marked)
    return v2 in marked
```

Depth First without Recursion





Single Source Shortest Paths

All targets in one shot

How can we find all distances from

Vi to the rest of the graph faster?

D(12+1m)

Volume of the graph

Search for something that's not there

Do the searches backwords