

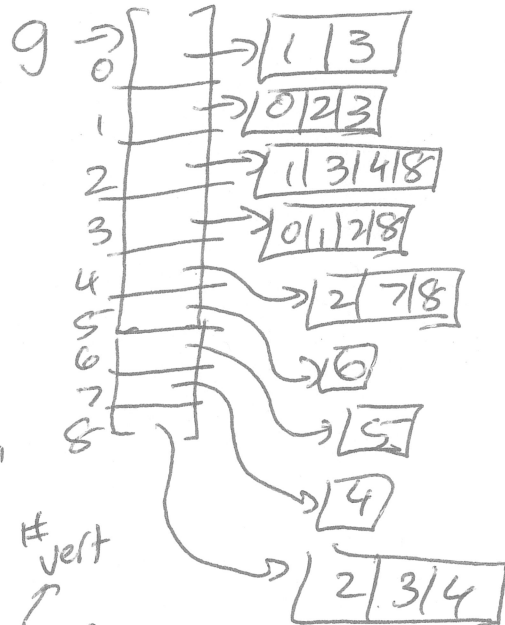
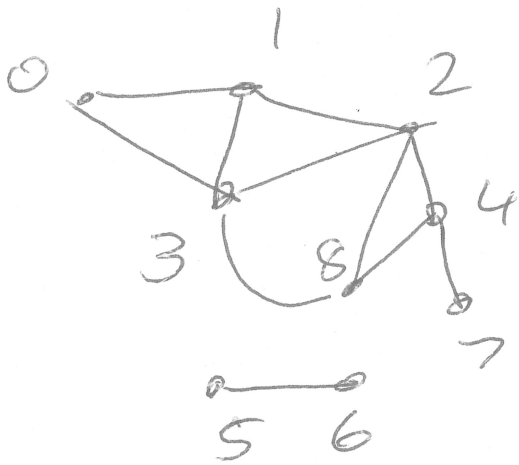
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Unweighted Graph Algorithms

DFS } undirected (typically)
BFS }

Top Sort } has to be directed

Graph Picture



~~graph~~ graph ~~int~~ int ~~# vert~~ # vert
dfs(g, ~~used~~ comp, ~~id~~ id, v):

comp[v] = id

for (newv in g[v]):

if comp[newv] != -1:
continue

dfs(g, comp, id, newv)

vertex to run on
id of Component

BFS

Also explores all vertices reachable from a starting vertex, but in addition obtains the shortest distances FROM the starting vertex to all others. (DFS does NOT do this!!!)

Block Game

