Alg

11/21/17

Breadth-First + Look at all reighbors. Look wide before deep

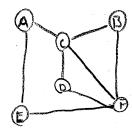
- · Explores all options at equal rate
- · Will find the shortest path
 (Since all path potentials progress at same rate)

BFS Traversal & Enquere Start, then neighbors, and reighbors of those ...

Also, standard is to mark nade as "Checked"

When enqueneing to avoid double enqueneing

- · Generally a style for order of checking (ig. alphabetical)
- · Keep traversing until quene is empty



@ Queue is FIFO

D > Eng (C, F) > C > Eng (A, B) > F + Eng(E)

A + B + E

Alg

What time does this run

Outer loop O(vertres) Inner loop O(edges)

Multiply? No eventhough nested

(IVI + 2/EI)

What if directional (or disconnected) graph?

- * Starting point mothers, may not find all reighbors.
 - · Sal? is to have list all nodes to verify if all have been reached, and jump to any that overit
- (IVI + IEI)
- . h > Contract/Declarations only (Exception is for "Friend")
- · cpp = > Strictly implementation