Graph traversal and search - Depth first seach (DFS) - Breadth first seach (BFS) - shortest path (variation on BFS) Traversal-visit whole graph
Seach-visit graph until you find what
you're looking for Start at 1 Stat do DFS buktruK depth

- pick a neighbor repent DFS from that neighbor (unless I have visited that neighbon) Order: 1,05,2,3,4 90 65 deep as you con it you hit a dead end or a ve tex that has been visited back up and try a different direction giver a vertex loop ove all neighbors visit each neighbor (DFS on that neighbor Unless visited previously

BreidH-first (BFS) Stat at a ve tex - vist all its neighbor - vist all their neighbors -etc, continuing to radiate outwards I avoiding repeats d (cheedy saw 3)

nevalors

BFS typically implemented W a queue. - shortest Peth is based on BFS Shortest path is the same as BFS, but keep track of how you sot to euch node Find shortest et stat Path trom 0 +0 4

Sueue Dremove and all neighborg 5 remove and add all neighbors x * = etc [(no, chedy) Visited > noneu 0 (via -) 3 9 10 rev 5 (via 0) (Via O) my destinction! 2 (via 1) great, what 3 (vic 1) wis peth? (Vis 1)