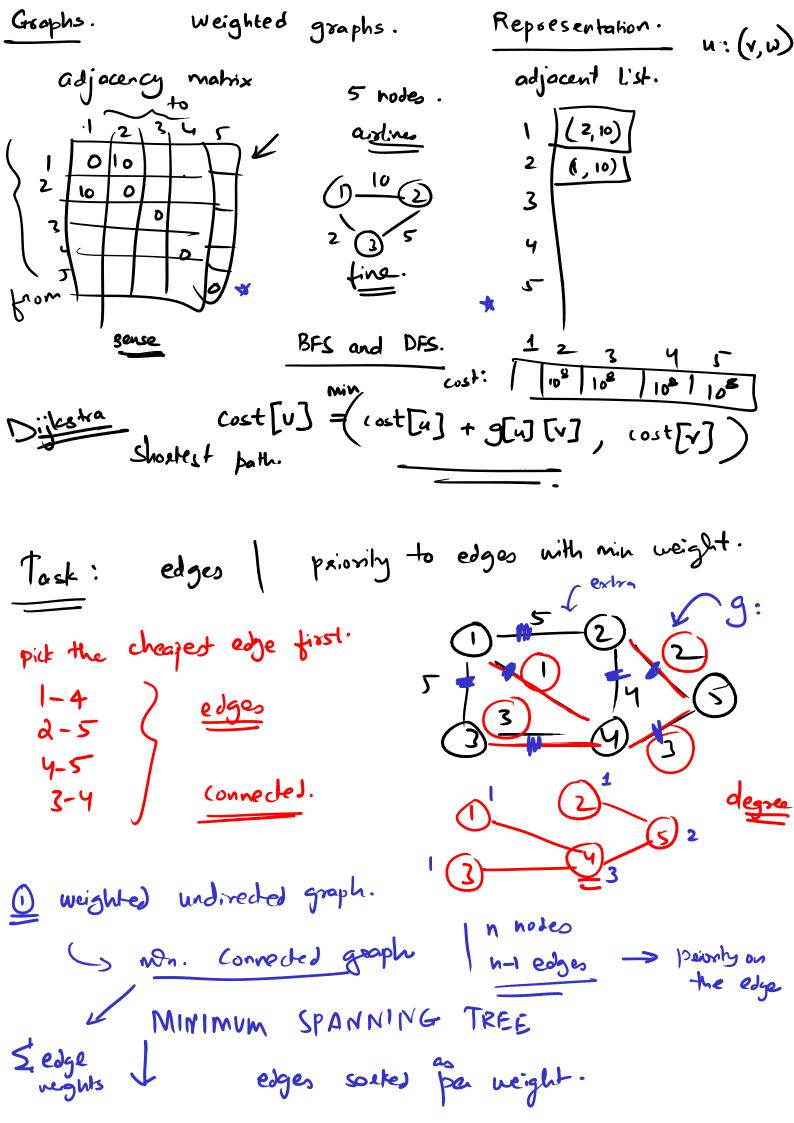


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callback

PP



nain represented: E int src n verhees int dest
int weight only when ordering of edges is imp. e edges edgeled edges; 7 [[--.] BFS and DFS & Road ?? 1. MST -s greedy minimize graph MST vs. Dijkstra. Dijkstra -> shoetest/min cost $A \rightarrow B$ DP edger Q. n-1 edges in MST. I imp Rest are discorded. Path 2 +3 => 64(2)

edges[] -> all edges are considered discrete. neighborhood n nodes >> nodes are discrete. / concept. 1): 2 3

W: 3 1 2 3

Set q nodeo

Set q edges. Connectivity. sets grusdes. : [213 {23 {13 }43 }5] parent/head of the set. {1,2} {33 {43 }55} note

index: 1 2 3. 4 5

every node

root 1 2 2 3 31. 5 head of the set its set. add-edge (root, u, v) root-q-u = 900t(u) root-q-v = 900t(v)not[1] = 2200t [200t-q-v] = 200t-q-u (3,4) (1,2) (5)

4 & 2 are automatically Somehow ensure: 1-3 wnneded. how > 2 and 4 are connected! (1,3)goot[u]!= u -> its not a parent. 23 900t[3)=2 (a,y) -> connected! 2 1 2 DISJOINT SET UNION Kruskal's algo-How to ultitre DSU ? 1. edges - sout them based on edge weight. 2. Root away -> 1 to N -> all set ther own parent. 3. Traverse cach edge in sequence: if disconnected (u,v): evot of u = scot (u) 2001 qu = 200t(v) 900t [900t_07-u] = 200t_07-v

else: continue