

let when a tree created by removing a leaf hode v from T. Whas fewer hodes tran T, so by I H, whas one more node man it has edges.

unen I add V back tow to # nodes: op by 1 # edges: up by 1 # nodes is I more man # edges

Greedy Algorimus make pre best local decision Lget an optimal global solution easy to design, but not always example Gale-Shapley -Topo 5007 Single-Pair shortest Pams (u,v) = lengm/ weign+ of edge X (1,3) = (5

5044 es = 0 +94get t = 6 unat is its weight /lengen? 9+4+1+11=25 BadGreedy (directed weighted graph Gr, sources, target !) Start Com S choose shortest edge keep going until I reach t Dijkstra (6,5, t):