1a) Tribialization & G, S3: Sfor each week U Vd = 20, V. ST = will S. d = 0 B= Hegp of Build Heap CList wodes )? 3 nild teap CList wodes) ~

for nodes 12 to 0 g

min Heapi fy (nodes, i) f Check against Child

hodes. If > Child, mon While Q is not Empty? V= Fxhad Mhn (Q) for Each edge (U,u): Relax (U,u) & if u.d > U.d + w Cu,u) ( , d = v . d + w(v, u) U.T=V 4 OW+ 2 Dlogust mu (log(n)) 2 Cases: O(nlosn) 2) Adjacenty Matrix: pay(U2+ U log U)= O(U2) If Matrix Used.