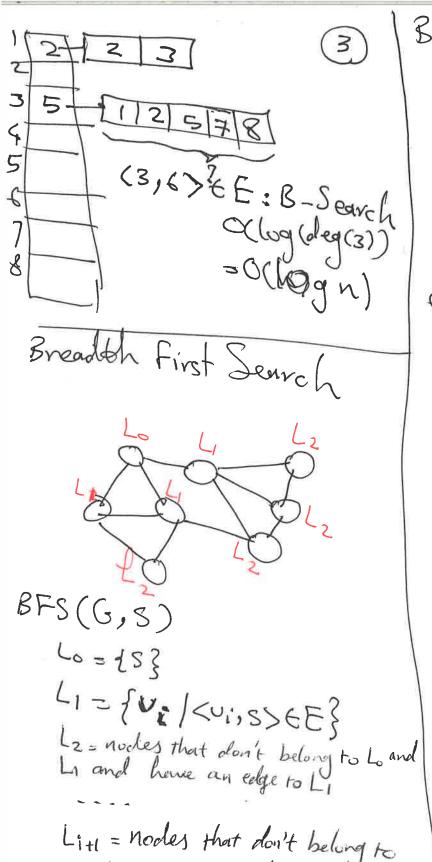
Find Max (A, Low, high): if (low == high) return A Clow] mid = [(low+high)/2] ml = Find Max(A, low, mid) mr=Find Max (A, midtl, high) return if (ml smr) ml else mr machines to Eind Max in O (logn) T(n) = 2T(n2) + 0(n0) T(n)=0(n/2)=0(n) Smar Lafuel (max, Value)

Knowledge Graphs, AKA. Entity Graphs 3 G (V, E) undirected, unweighted ver is a note (Vi, yi) €E Movies Contains You tule n: # moles, m: # Edges $V=\{1,2,...8\}$ $E_{3}\{\{1,2\},\{1,3\},...3\}$ $N_{1}=\{1,2\},\{1,3\},...3\}$ Freebase, DB Pedia, Wikipedia, deg(vi)=/{\vi,vj>/E} Graph Representation

2 345678

2 10111000

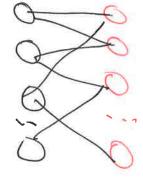
2 345678 deg(26)=1, deg(3)=5 Graphy fundirected, unweighted facebook [friendship] Later [followers] - undirected swighted La A weight is assigned to an edge Maps.



Li and have an edge to Li

Litt = Modes that don't belong to
earlier layers and have edge to
Li

Bipartite Graph



every edge has I black and one red node.

