Gordon Ng CS 390 H.W # 5 nodes are a connection point inside a network that sends/recieves (create or store data. We need to find out if we finished building the doors walls before we go to windows, doors or paintings [walls] -> wm, pori, doors An edge is the connection of nodes, they can be (paintings) directed. We do not have a double arrow from Win > windows and doors due to an infinite loop problem [Pai 7 Windows, doors, and painting is on the same layer. doors b) The property that you should not be have cycles that keep you in an infinite loop, so the graph has an ending, aka the building can be complete. Appliformal I'V worthood (c) Update Graph And Degrees (G): N=len(G) indegree = Zeros (N) $(ict)_{n>1} = V$ for node in I to N: 11 hours of some both for linked list in node, next: 11 m indegree [http://dist] +=1; manua fe asmobili) and remarkably 24452 2004 27 delete_nodes = [] for i in (i to N): if indegree [i] == 0; delete_nodes.append Li] 1/1 for deletein deletenodes: //m for linkedlist in nodenext: indegree - = li linkedlist, edges = null'i return Ozarnay.

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We iterate throughthe linked list, list, and then each key in each linked list which is O(m+m) together. Then removing and adding indeques of Q to deternodes is O(n), removing them and updating them is O(m). The overall upperbound of this function is O(m+m). This would be 3n+2m which is still O(m+n). Another approach would to tense sets, and add lists to the set, and clelete the ones without another link for the linked list.

d'Eundion Order_of_Tasks(G): N=len(G); Array B = BFS (G); head node = BIOT; Array A append (tuple (head node)); Order=[] auhile ler (G) !=0: modes_that_are_removed = Update Graph And Degrees (G);
Array A append (tuple (nodes_that_are_removed)) order t= Array A return Array A. This is O(n+m) as the BFS function is used to find the source node in O(n+m) time, then it traverses O(n) of the graph to use Update Graph And Degrees which is also ((n+m), which gives us an O(n+m) generated array of daily tuples. Example: [(walls), (painting, windows, doors)]