Topological dort : Kahn's Algorithun imber of Incoming nodes to a Topological Sort - DAG2 - Lineal \* If we cannot apply topo sort I to a directed graph, what does that mean? - Cycle Detected \* When we are done with the follower ordering = N Tobo Sout BFS Kahn's Algroithm Directed Cyclic Grafts - Cycle
Detection
Toporal(1)
Alj list Indegree -) TS # N -) Cxlle \* your an adjacency list of a certain graph, count the number of edges and the no. of nodes. Undirected Node 0 \$1,23 Nodel 50,2,3} Node 2 50, 1, 45 Node 3 & 1,4} Node 4 & 2, 33 Number of Nodes = 5 Number of Edges = 6 Lightra's Algorithm: Shootest Lath [Parosity Querre] Adj List: > (N,W)  $0 \rightarrow \{1,4\}\{2,4\}$  $\frac{1}{2} \Rightarrow \frac{1}{5} = \frac{3}{5} = \frac{1}{5} = \frac{1}$ 3-1233, 35,23 4 -> {2/13,55/33 Dijkstra's Problem: Infruite Loop :-) -6 ElogV