Day - 202 Graph-6 Cycle in a Directed Graph? \* So, cycle detection is used in the detection Ħ of the deadlast. Here, we can't use our previous logic 4 of cycle detection (that visited approach) 4 So, now, if at the time of traversing a path if we get any vertex duice that = 4 Now, how to track current path? = we will create a path array of size V. Then we will start traversing our graph. we will write I for visited node in path So, if we get any visited node—we that =

Page Code detect Cycle (int node, vector < int > adj [], vector < bool > & path ){ path [ Node] = 1; fonlintj=U; j< adj[node].size();j++){ if ( path[adj[node][j] notwn 1; if ( detect cycle ( adj [node][j), adj, path)) rotush 1; path [node] = U; roturn O; This is not our most optimized code. Suppose, if we visit a path that don't have ch) 7 any clas cycle than in the next visit, there will be no cycle too. So, visiting this path again increases our time complexity. So, we will use a visited array First, we check that node for again in the path. If not then check that node if it is th visited on not. that

