Day 50

Code-

class Solution {

public:

bool canFinish(int numCourses, vector<vector<int>>& prerequisites) {

int n = numCourses;

vector<int> adj[n];

for(auto it : prerequisites)

{

adj[it[1]].push\_back(it[0]);

}

vector<int> indegree(n,0);

queue<int> q;

for(int i = 0; i<n; i++)

{

for(auto it : adj[i])

{

indegree[it]++;

}

}

for(int i = 0; i<n; i++)

{

if(indegree[i] == 0)

{

q.push(i);

}

}

int cnt = 0;

while(!q.empty())

{

int node = q.front();

q.pop();

cnt++;

for(auto it : adj[node])

{

indegree[it]--;

if(indegree[it] == 0)

{

q.push(it);

}

}

}

if(cnt == n)

{

return true;

}

return false;

}

};

Time complexity – O(N)

Space complexity-O(1)

