547. Number of Provinces

Using DFS

class Solution {

public:

void visit(vector<bool>&vis , vector<vector<int>>&adj , int i){

vis[i]= true;

for(auto x :adj[i]){

if(vis[x]==false){

visit(vis , adj , x);

}

}

}

int findCircleNum(vector<vector<int>>& isConnected) {

int n =isConnected.size();

vector<vector<int>>adj(n);

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

for(int j=0;j<n;j++){

if(isConnected[i][j]==1 && i!=j){

adj[i].push\_back(j);

adj[j].push\_back(i);

}

}

}

vector<bool>vis(n, false);

int count=0;

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

if(vis[i]==false){

count++;

visit(vis, adj ,i);

}

}

return count;

}

};