**Connected Component, Topological Sort, O(V+E)**

**topSort is a vector that store topological sorting in reverse order**

**topSort and first dfs is not required for bi-directional graph**

**Tested on: Uva 11504 – Dominos**

void dfs(int u)

{

vis[u]=true;

for(int i=0; i<adj[u].size(); i++)

{

int v=adj[u][i];

if(!vis[v]) dfs(v);

}

topSort.push\_back(u);

return;

}

int connectedComponent(int n)

{

CLR(vis);

for(int i=1; i<=n; i++)

if(!vis[i]) dfs(i);

CLR(vis);

int cnt=0;

for(int i=topSort.size()-1; i>=0; i--)

if(!vis[topSort[i]])

{

cnt++;

dfs(topSort[i]);

}

return cnt;

}