**Tarjan SCC, O(V+E)**

**scc is the total number of scc, sccrm[i] is the scc room number of node i where it belongs**

void tarjan(int u)

{

t++;

vis[u]=1;

tim[u]=t;

lo[u]=t;

stk.push(u);

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

{

int v=adj[u][i];

if(!vis[v])

{

tarjan(v);

lo[u]=min(lo[u],lo[v]);

}

else if(vis[v]==1)

lo[u]=min(lo[u], tim[v]);

}

if(lo[u]==tim[u])

{

scc++;

int done;

do

{

done = stk.top();

stk.pop();

sccrm[done]=scc;

sccrmtot[scc]++;

vis[done]=2;

}

while(done!=u);

}

return;

}