**Bipartite Matching, O(N^2\*E)**

**Tested on LOJ 1201**

vector<int>adj[MX];

int matchR[MX];

bool vis[MX];

bool bpm(int u)

{

int vl=adj[u].size();

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

{

int v=adj[u][i];

if (!vis[v])

{

vis[v] = true;

if (matchR[v] < 0 || bpm(matchR[v]))

{

matchR[v] = u;

return true;

}

}

}

return false;

}

int maxBPM(int n)

{

SET(matchR);

int cnt = 0;

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

{

CLR(vis);

if(bpm(i)) cnt++;

}

return cnt;

}