

二分图匹配

```
#include <bits/stdc++.h>
using namespace std;
#define N 1001

int n, m, e, ans, match[N];
bool a[N][N], vis[N];

bool dfs(int x){
    for (int i=1;i<=m;i++){
        if (!vis[i]&&a[x][i]){
            vis[i]=1;
            if (!match[i]||dfs(match[i])){
                match[i]=x;
                return true;
            }
        }
    }
    return false;
}

int main(){
    cin >> n >> m >> e;
    for (int i=1;i<=e;i++){
        int u,v;
        cin >> u >> v;
        if (v<=m) a[u][v]=1;
    }
    for (int i=1;i<=n;i++){
        ans+=dfs(i);
        memset(vis,0,sizeof(vis));
    }
    cout << ans;
    return 0;
}
```