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#include <iostream>
#include<vector>
using namespace std;
const int N=10;
bool vis[N];
vector<int> g[N];
bool dfs(int vertex, int par)
     vis[vertex]=true;
     bool isloopexist=false;
     for(int child:g[vertex])
         if(vis[child]&&child==par) continue;
         if(vis[child]) return true;
         isloopexist |=dfs(child,vertex);
    return isloopexist;
int main()
    int n,e;
    cin>>n>>e;
    for(int i=0;i<e;++i)</pre>
       int x,y;
       cin>>x>>y;
       g[x].push_back(y);
       g[y].push_back(x);
    bool isloopexist=false;
    for(int i=1;i<=n;++i)</pre>
        if(vis[i]) continue;
        if(dfs(i,0))
          isloopexist=true;
          break;
    cout<<isloopexist<<endl;</pre>
    return 0;
```