

Monk and the Islands(hackerearth)

```
#include<bits/stdc++.h>
using namespace std;
int v[100001]={0},dis[100001]={0};
vector<int>arr[100001];
int bfs(int src)
{
    queue<int> q;
    q.push(src);
    v[src]=1;
    dis[src]=0;
    while(!q.empty())
    {
        int current=q.front();
        q.pop();
        for(int i=0;i<arr[current].size();i++)
        {
            int child;
            child=arr[current][i];
            if(v[child]==0)
            {
                q.push(child);
                //bfs(child);
                dis[child]=dis[current]+1;
                v[child]=1;
            }
        }
    }
}

int main()
```

```
{  
    int t;  
    cin>>t;  
    while(t--)  
    {  
        int n,m;  
        cin>>n>>m;  
        int a,b;  
        for(int i=1;i<=n;i++)  
        {  
            arr[i].clear();  
            v[i]=0;  
        }  
        for(int i=1;i<=m;i++)  
        {  
            cin>>a>>b;  
            arr[a].push_back(b);  
            arr[b].push_back(a);  
        }  
        bfs(1);  
        //cout<<sub[1];  
        //for(int i=1;i<=n;i++)  
        cout<<dis[n]<<endl;  
    }  
}
```