```cpp
#include <iostream>
#include <fstream>

using namespace std;

ifstream fin("graf.in");

int n,m,a[20][20];

void Creare()
{
    int i,j;
    fin>>n;
    while(fin>>i>>j)
    {
        m++;
        a[i][j]=a[j][i]=1;

    }
    fin.close();
}
void Afisare ()
{
    int i,j;
    for(i=1; i<=n; i++)
    {
        cout<<endl;
        for(j=1; j<=n; j++)
            cout<<a[i][j]<<" ";
    }
}
int Grad(int x)
{
    int s=0;
    for(int i=1; i<=n; i++)
        s=s+a[x][i];
    return s;
}
int main()
{
    Creare();
    cout<<"Matrice de adiacenta \n";
    Afisare();
    for(int i=1; i<=n; i++)
    {
        cout<<"\nNodul "<<i<<"are gradul "<<Grad(i);
        if(grad(i)==1)
```

```cpp
            cout<<"\nNodul "<<i<<" terminal";
        else if(grad(i)==0)
            cout<<"\nNodul "<<i<<" izolat";
    }
    cout<<"\nNr muchii "<<m;
    return 0;
}
```