


POJ 1947

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#include<iostream>
#include<cstdio>
#include<algorithm>
#include<cstring>
#include<cmath>
#include<cstdlib>
#define INF 0x3f3f3f3f
using namespace std;
int n,p,res,head[155],cnt,f[155][155];
struct Node{int nxt,to;}Edges[155*2];
void addedge(int u,int v)
{
    Edges[++cnt].nxt=head[u];
    head[u]=cnt,Edges[cnt].to=v;
}
void dfs(int u)
{
    f[u][1]=0;
    for(int i=head[u];~i;i=Edges[i].nxt)
    {
        int v=Edges[i].to;
        if(f[v][1]!=INF)continue;
        dfs(v);
        for(int j=p;j;j--)
        {
            f[u][j]=f[u][j]+1;
            for(int k=0;k<=j;k++)
            {
                f[u][j]=min(f[u][j],f[v][k]+f[u][j-k]);
            }
        }
    }
    if(u!=1)res=min(res,f[u][p]+1);
    else res=min(res,f[u][p]);
}
int main()
{
    while(~scanf("%d%d",&n,&p))
    {
        cnt=0,res=INF;
        memset(head,-1,sizeof(head));
        memset(f,0x3f,sizeof(f));
        for(int i=1;i<n;i++)
        {
            int u,v;
            scanf("%d%d",&u,&v);
            addedge(u,v);
        }
        dfs(1);
    }
}
```

```
printf("%d\n", res);  
}  
return 0;  
}
```

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