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1 #include <stdio.h>
2 #define MAX 100
3 int g[MAX][MAX], q[MAX], dist[MAX], v[MAX], n, m;
4 int bfs(int s, int e) {
5     for(int i=1; i<=n; i++) dist[i]=-1;
6     dist[s]=0; v[s]=1; q[0]=s;
7     int f=0, r=1;
8     while(f<r) {
9         int u=q[f++];
10        if(u==e) return dist[u];
11        for(int i=1; i<=n; i++)
12            if(g[u][i] && !v[i]) {
13                v[i]=1; dist[i]=dist[u]+1; q[r++]=i;
14            }
15    }
16    return -1;
17 }
18 int main() {
19     int u,v,s,e;
20     scanf("%d%d",&n,&m);
21     for(int i=0;i<m;i++){
22         scanf("%d%d",&u,&v);
23         g[u][v]=g[v][u]=1;
24     }
25     scanf("%d%d",&s,&e);
26     printf("%d\n",bfs(s,e));
27     return 0;}
```

5	5
1	2
2	3
2	5
3	4
4	5
1	5

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