

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  #include <iostream>
4  #include <algorithm>
5  #include <vector>
6  #include <cstring>
7  #include <cmath>
8  #include <queue>
9  using namespace std;
10
11 const int maxn = 105;
12 int choice[maxn];
13 const int INF = 0x3fffffff;
14 int G[maxn][maxn];
15 int dp[maxn],n,in[maxn];    //作为结果的数组
16
17 int solve(int id){
18     if(dp[id] > 0) return dp[id];
19     for(int i=1;i<=n;i++){
20         if(G[id][i] != INF){
21             int temp = solve(i) + G[id][i];
22             if(temp > dp[id]){
23                 dp[id] = temp;
24                 choice[id] = i;
25             }
26         }
27     }
28     return dp[id];
29 }
30
31 void printPath(int i){
32     printf("%d",i);
33     while(choice[i] != -1){
34         i = choice[i];
35         printf("->%d",i);
36     }
37 }
38
39 int main(){
40     int m,x,y,z;
41     memset(dp,0,sizeof(dp));
42     fill(G[0],G[0]+maxn*maxn,INF);
43     memset(choice,-1,sizeof(choice));
44
45     cin >> n >> m;
46     for(int i=0;i<m;i++){
47         cin >> x >> y >> z;
48         G[x][y] = z;
49         in[y]++;
50     }
51     for(int i=1;i<=n;i++){
52         if(in[i] == 0)
53             solve(i);
54     }
55 }
56
```

```
57     int u=1;
58     for(int i=2;i<=n;i++){
59         if(dp[i] > dp[u])
60             u = i;
61     }
62
63     printPath(u);
64
65     return 0;
66 }
67 /*
68 4 4
69 1 2 2
70 1 4 5
71 2 3 8
72 4 3 3
73 */
74
75
```