```c
#include<stdio.h>
#define V 8
#define INF 999999

int min(int a,int b){
    if(a<b)return a;
    return b;
}
void printSolution(int dist[][V])
{
printf("\n:::::::::::::::::::::::::: ALL PAIR SHORTEST PATH ::::::::::::::::::::::::\n");

printf("_____________________________________________________________________________");

printf("\n___|_____1|_____2|_____3|_____4|_____5|_____6|_____7|_____8|\n");

    for (int i = 0; i < V; i++)
    {
    printf(" %d |  ",i+1);
        for (int j = 0; j < V; j++)
        {
            if (dist[i][j] == INF)
                printf("%7s|", "INF");
            else
                printf ("%7d|", dist[i][j]);
        }

        printf("\n");
    }

printf("_____________________________________________________________________________\n");
}
]
void floydWarshal(int graph[][V]){
    int dist[V][V];
    for(int i=0;i<V;++i){
      for(int j=0;j<V;++j){
        dist[i][j]=graph[i][j];
      }
    }

    for(int k=0;k<V;++k){
        for(int i=0;i<V;++i){
            for(int j=0;j<V;++j){
                dist[i][j]=min(dist[i][j],dist[i][k]+dist[k][j]);
            }
        }
    }

    printSolution(dist);
}

int main(){
```

```
51:     int graph[V][V]={{0,10,INF,INF,INF,INF,INF,8},
52:                      {INF,0,INF,INF,INF,2,INF,INF},
53:                      {INF,1,INF,1,INF,INF,INF,INF},
54:                      {INF,INF,INF,0,3,INF,INF,INF},
55:                      {INF,INF,INF,INF,0,-1,INF,INF},
56:                      {INF,INF,-2,INF,INF,0,INF,INF},
57:                      {INF,-4,INF,INF,INF,-1,0,INF},
58:                      {INF,INF,INF,INF,INF,INF,1,0}};
59:
60:   floydWarshal(graph);
61:   return 0;
62: }
63:
```