Floyad-Warshal

Given The description of cities I Have to print the minimum cost to go from everycity to other city. If there are infinite number of paths print -1;

```
#include<bits/stdc++.h>
using namespace std;
#define II long long
#define inf 0x3f3f3f3f
#define mxx 30
#define sfll(a) scanf("%lld",&a)
II matrix[mxx + 5][mxx + 5];
int main()
  II edge,ww =0;
  while(sfll(edge)==1)
    memset(matrix,0,sizeof(matrix));
    II mx = 0;
    for(II i=0; i<edge; i++)
    {
       Il frm,to;
       sfll(frm);
       sfll(to);
       mx = max(mx,max(frm,to));
       //sfll(cst);
       matrix[frm][to] = 1;
    }
    for(int k = 0; k<=mx; k++)
       for(int i = 0; i<=mx; i++)
         for(int j = 0; j <= mx; j++)
           if(matrix[i][k] \ !=0 \ \&\& \ matrix[k][j] \ !=0) \\
              matrix[i][j] += (matrix[i][k] * matrix[k][j]);
    for(int k = 0; k<=mx; k++)
       if(matrix[k][k]!=0){
         for(int i = 0; i<=mx; i++)
           for(int j = 0; j <= mx; j++)
              if(matrix[i][k] !=0 && matrix[k][j] !=0){
```

```
//matrix[i][k] = -1;
             matrix[i][j] = -1;
            }printf("matrix for city %lld\n",ww++);
  for(int i = 0; i<=mx; i++)
  {
    for(int j = 0; j<=mx ; j++)
    {
       printf("%lld",matrix[i][j]);
       if(j<mx)
         printf(" ");
     printf("\n");
return 0;
```