```c
#include<stdio.h>
#include<string.h>
#define size 20
int i,j,m,n,c[size][size];
char x[size],y[size],b[size][size];
void print(int i,int j)
{
        if(i==0 || j==0)
            return;

        if(b[i][j]=='c')
        {
            print(i-1,j-1);
            printf("%c",x[i-1]);
        }

        else if(b[i][j]=='u')
            print(i-1,j);

        else
            print(i,j-1);
}

void longest_common()
{
        m=strlen(x);
        n=strlen(y);
        for(i=0;i<=m;i++)
            c[i][0]=0;
        for(i=0;i<=n;i++)
            c[0][i]=0;
        for(i=1;i<=m;i++)
            for(j=1;j<=n;j++)
            {
                if(x[i-1]==y[j-1])
                {
                    c[i][j]=c[i-1][j-1]+1;
                    b[i][j]='c';
                }
                else if(c[i-1][j]>=c[i][j-1])
                {
                    c[i][j]=c[i-1][j];
                    b[i][j]='u';
                }
                else
                {
                    c[i][j]=c[i][j-1];
                    b[i][j]='l';
                }

            }
        for(i=0;i<=m;i++)
        {
            for(j=0;j<=n;j++)
                printf("%5d",c[i][j]);
            printf("\n\n");
        }

        if(c[m][n] != 0)
            printf("Longest common subsequence is of %d length \n",c[m][n]);

        print(m,n);
 }

int main()
{
```

```c
67          printf("\tEnter first string\t");
68          scanf("%s",x);
69          printf("\tEnter second string\t");
70          scanf("%s",y);
71
72      printf("\nLongest common subsequence is :\n ");
73      longest_common();
74
75      return 0;
76
77
78  }
```