```
1: #include<stdio.h>
 2:
 3: int size(char A[]){
4:
         int c=0, i=0;
 5:
        while(A[i]!='\0'){
 6:
             i=i+1;
7:
             c=c+1;
 8:
         }
 9:
        return c;
10:
11: }
12: int min(int a,int b,int c){
     if(a<b&&a<c)</pre>
14:
       return a;
15:
     if(b<c&&b<a)</pre>
16:
      return b;
17:
      return c;
18: }
19: void print(char A[]){
20:
        int i=0;
21:
         printf("
22:
        while(A[i]!='\0'){
             printf("|_%c_",A[i]);
23:
24:
             i=i+1;
25:
26:
        printf("|_._|");
27: }
28: int ED(char A[],char B[]){
29:
        int m=size(A);
30:
         int n=size(B);
         int ED[m+1][n+1];
31:
32:
         for(int r=0;r<=m;++r)</pre>
33:
           ED[r][n]=m-r;
34:
        for(int c=0;c<=m;++c)</pre>
35:
           ED[m][c]=n-c;
36:
        for(int c=m-1;c>=0;--c){
37:
             for(int r=n-1;r>=0;--r){
38:
                  if(A[r]==B[c])
39:
                    ED[r][c]=ED[r+1][c+1];
40:
                  else
                    ED[r][c]=1+min(ED[r+1][c+1],ED[r+1][c],ED[r][c+1]);
41:
42:
43:
             }
44:
45:
         }
46:
         print(B);
47:
         printf("\n\n");
48:
         for(int i=0;i<=m;++i)</pre>
49:
           {
50:
             printf("|_%c_| ",A[i]);
51:
52:
           for(int j=0;j<=n;++j)</pre>
            printf("|_%d_",ED[i][j]);
53:
54:
        printf("|");
```

```
55:
         printf("\n");
56: }
57:
        int i=0, j=0;
        printf("\nTransforming %s to %s: ",B,A);
58:
59:
        while(i<=m&&j<=n){</pre>
60:
             if(A[i]==B[j]){
61:
                 i++; j++;
             }
62:
            else{
63:
64:
                 int k=min(ED[i+1][j+1],ED[i+1][j],ED[i][j+1]);
                     if(k==ED[i+1][j])
65:
66:
                       printf("\n Deleting: %c at position: %d in %s--->%s ",A[i],
67:
    i+1, A, A+i+1);
68:
                       i++;
                     }
69:
70:
                     else
71:
                     {
                       printf("\n Inserting: %c at position: %d ",B[j],j+1);
72:
73:
                       j++;
            }
}
74:
75:
76:
77:
         return ED[0][0];
78:
79: }
80: int main(){
81:
        char B[]="secret";
82:
        char A[]="bisect";
83:
        int p=ED(A,B);
        printf("\n \nSo Number of minimum edit that are require: %d",p);
84:
85: }
```