

Code:

```
1  #include<stdio.h> int check(int x,int y)
2  {
3      int a, b, c;
4
5      if (x % y == 0)
6          return 0;
7      a = x / y;
8      b = y * (a + 1);
9      c = b - x;
10     return c;
11 }
12
13
14 void
15 main ()
16 {
17     int l1, i, d, j;
18
19     printf ("\nEnter the length of the key. ");
20
21     scanf ("%d", &l1);
22     int sequence[l1];
23
24     printf ("\nEnter the sequence key. ");
25     for (i = 0; i < l1; ++i)
26     {
27
28
29         scanf ("%d", &sequence[i]);
30
31     }
32     int order[l1];
33     for (i = 1; i <= l1; ++i)
34     {
35
36
37     for (j = 0; j < l1; ++j)
38     {
39
40         if (sequence[j] == i)
41             order[i - 1] = j;
42     }
43     }
44
45     printf ("\nEnter the depth. ");
46
47     scanf ("%d", &d);
48
49
50     int l2;
51
52     printf ("\nEnter the length of String without spaces . ");
53     scanf ("%d", &l2);
54     int temp1 = check (l2, l1);
55
56     int r = (l2 + temp1) / l1;
57
58
59     char p[l2 + temp1];
60     char p1[r][l1]; //char p2[r][l1]; if(temp1>0) printf("\nYou need to enter %d bogus characters.So enter total %d characters.
61     char p1[r][l1]; //char p2[r][l1]; if(temp1>0) printf("\nYou need to enter %d bogus characters.So enter total %d characters.
62     ",temp1,(l2+temp1));
63     else printf(" \nEnter the string."); for(i=-1;i<(l2+temp1);++i)
64     {
65         scanf(" %c ",&p[i]);
66     } int count=0; while(d>0)
67     {
68         count=0; for(i=0;i<r;++i)
69         {
70             for(j=0;j<l1;++j)
71             { p1[i][j]=p[count];
72             count=count+1;
73             } } printf(" \n \n \n \n "); for(i=0;i<r;++i)
74             { for(j=0;j<l1;++j)
75             { printf(" %c ",p1[i][j]);
76             }
77             printf(" \n ");
78             count=0; for(i=0;i<l1;++i)
79             {
80                 for(j=0;j<r;++j)
81                 { p[count]=p1[j][order[i]];
82                 count=count+1;
83                 } } for (i=0;i<(l2+temp1);++i) printf(" %c ",p[i]);
84             d=d-1;
85         }
```

Output:

Enter the length of the key. 7

Enter the sequence key. 4 3 1 2 5 6 7

Enter the depth. 2

Enter the length of String without spaces . 23

You need to enter 5 bogus characters. So enter total 28 characters.

attackpostponeduntiltwoamxyz

a t t a c k p o s

t p o n e

d u n t i l t

w o a m x y z

t t n a a p t m t s u o a o d w c o i x k n l y p e t z t t n a a

p t m t s u o a o d w c o i x k n l y p e t z

n s c y a u o p t t w l t m d n a o i e p a x t t o k z