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1  /* Problem 1--Twenty
2     This was a straightforward ASCII Art problem. */
3
4  import java.io.*;
5  import java.util.*;
6
7  public class probl {
8
9     private static Scanner in;
10    private static PrintWriter out;
11    private static int cs, sz;
12
13    public static void main (String[] args) throws Exception {
14
15        in = new Scanner (new File ("probl.in"));
16        out = new PrintWriter ("probl.out");
17        cs = 1;
18        while ((sz = in.nextInt()) > 0) Process();
19        in.close ();
20        out.close ();
21    }
22
23    public static void PrintMult (char c, int t) {
24        /* This prints multiple characters at once */
25        for (int i=0; i < t; i++) out.printf ("%c",c);
26    }
27
28    public static void NewLine () {
29
30        out.printf ("\r\n"); /* line break */
31    }
32
33    public static void Process() {
34
35        out.printf ("Case %d:\r\n",cs++);
36        PrintMult ('X',sz); /* Top of digits */
37        PrintMult (' ',1);
38        PrintMult ('X',sz);
39        NewLine();
40        for (int i=0; i < sz-2; i++) {
41            PrintMult (' ',sz-1); /* Upper part */
42            PrintMult ('X',1);
43            PrintMult (' ',1);
44            PrintMult ('X',1);
45            PrintMult (' ',sz-2);
46            PrintMult ('X',1);
47            NewLine();
48        }
49        PrintMult ('X',sz); /* Middle */
50        PrintMult (' ',1);
51        PrintMult ('X',1);
52        PrintMult (' ',sz-2);
53        PrintMult ('X',1);
54        NewLine();
55        for (int i=0; i < sz-2; i++) {
56            PrintMult ('X',1); /* Lower */
57            PrintMult (' ',sz-1);
58            PrintMult (' ',1);
59            PrintMult ('X',1);
60            PrintMult (' ',sz-2);
61            PrintMult ('X',1);

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62     NewLine();
63     }
64     PrintMult ('X',sz); /* Bottom */
65     PrintMult (' ',1);
66     PrintMult ('X',sz);
67     NewLine();
68     NewLine();
69     }
70 }
71
```