```
 1  /* Problem 3--The Cornucopia
 2     This was the ASCII art problem this year.  This was pretty
 3     straightforward. */
 4
 5  import java.io.*;
 6  import java.util.*;
 7
 8  public class prob3 {
 9
10   private static Scanner in = null;
11   private static PrintWriter out = null;
12   private static int cs = 0;
13
14   public static void main (String[] args) throws Exception {
15
16    in = new Scanner (new File ("prob3.in"));
17    out = new PrintWriter ("prob3.out");
18    while (true) {
19     int sz = in.nextInt ();
20     if (sz==0) break;
21     Process (sz); //process each data case
22    }
23    in.close ();
24    out.close ();
25   }
26
27   /* Process draws the hexagon */
28   public static void Process (int sz) throws Exception {
29
30    sz = 2*sz-1;
31    for (int i=0; i < sz; i++) out.print (" "); //top of hexagon
32    for (int i=0; i < sz; i++) out.print ("-");
33    out.print ("\r\n");
34    for (int i=sz-1; i >= 0; i--) {
35     for (int j=0; j < i; j++) out.print (" ");
36      out.print ("/"); //top half
37     for (int j = 0; j < 3*sz-2*i-2; j++)
38      out.print (" ");
39     out.print ("\\\r\n");
40    }
41    for (int i=0; i < (3*sz-1)/2; i++) out.print (" ");
42    out.print ("C\r\n"); //the cornucopia
43    for (int i=0; i <= sz-1; i++) {
44     for (int j=0; j < i; j++) out.print (" ");
45      out.print ("\\");
46     for (int j = 0; j < 3*sz-2*i-2; j++)
47      out.print (" ");
48     out.print ("/\r\n");
49    }
50    for (int i=0; i < sz; i++) out.print (" ");
51    for (int i=0; i < sz; i++) out.print ("-");
52    out.print ("\r\n\r\n");
53   }
54  }
55
```