

```

1  /* Problem 5--Okily Dokily
2     This was a very straightforward program.  There are no weird barbs
3     you had to worry about.  Just follow the rules. */
4
5  import java.io.*;
6  import java.util.*;
7
8  public class prob5 {
9
10     private static Scanner in;
11     private static PrintWriter out;
12     private static int cs;
13     private static String s;
14
15     public static void main (String[] args) throws Exception {
16
17         in = new Scanner (new File ("prob5.in"));
18         out = new PrintWriter ("prob5.out");
19         cs = 1;
20         while (true) {
21             s = in.nextLine(); //Keep reading until the empty string!
22             if (s.equals ("")) break;
23             Process ();
24         }
25         in.close ();
26         out.close ();
27     }
28
29     /* Process just applies the rules */
30     public static void Process () throws Exception {
31
32         String t = "";
33         for (int i=0; i <= s.length(); i++) {
34             if (i < s.length() && s.charAt(i) != ' ') t += s.charAt(i);
35             else {
36                 if (IsVowel (s.charAt(i-1)) )t += "LY ";
37                 else if (s.charAt(i-1) != 'Y') t += "ILY ";
38                 else if (IsVowel (s.charAt(i-2)))
39                     t = t.substring (0,t.length()-2) + "ILY ";
40                 else t = t.substring (0,t.length()-1)+"ILY ";
41             }
42         } // print it out!
43         out.printf ("Case %d: Flanders says \"%s\"\r\n\r\n",
44                 cs++,t.substring(0,t.length()-1));
45     }
46
47     /* Checks for vowels.  Lowercase is not used in this program. */
48     public static boolean IsVowel (char c) {
49
50         return c=='A' || c=='E' || c=='I' || c=='O' || c=='U';
51     }
52 }
53

```