

```
1: import java.io.BufferedReader;
2: import java.io.InputStreamReader;
3:
4:
5: public class Fox {
6:
7:
8:     public static void main(String[] args) {
9:         BufferedReader bfr = new BufferedReader(new InputStreamReader(System.in));
10:
11:        try {
12:
13:            String line;
14:            while ((line = bfr.readLine()) != null) {
15:
16:                if (line.startsWith("END")) break;
17:
18:                StringBuilder sb = new StringBuilder(line);
19:
20:                if (line.equals("0")) {
21:                    System.out.println("-1");
22:                    continue;
23:                }
24:                else {
25:                    if (sb.charAt(0) == '-') {
26:                        for (int i=sb.length()-1; i>0; i--) {
27:                            if (sb.charAt(i) != '9') {
28:                                sb.setCharAt(i, (char) (sb.charAt(i)+1));
29:                                System.out.println(sb.toString());
30:                                continue m;
31:                            }
32:                        }
33:                        sb.setCharAt(0, '1');
34:                        System.out.println("-" + sb.toString());
35:                    }
36:                    else {
37:                        for (int i=sb.length()-2; i>=0; i--) {
38:                            if (sb.charAt(i) != '0') {
39:                                if (((sb.charAt(i+1) != '8') && (sb.charAt(i+1) != '9')) {
40:                                    sb.setCharAt(i+1, (char) (sb.charAt(i+1) + 2));
41:                                    sb.setCharAt(i, (char) (sb.charAt(i) - 1));
42:                                    System.out.println(Integer.parseInt(sb.toString()));
43:                                    continue m;
44:                                }
45:                            }
46:                        }
47:                        for (int i=sb.length()-1; i>=0; i--) {
48:                            if (sb.charAt(i) != '9') {
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49:                                         sb.setCharAt(i, (char) (sb.charAt(i) + 1));
50:                                         System.out.println("+" + sb.toString());
51:                                         continue m;
52:                                     }
53:                                 }
54:                             System.out.println("-1" + sb.toString());
55:                         }
56:                     }
57:
58:
59:                 }
60:
61:             } catch (Exception e) {
62:                 e.printStackTrace();
63:             }
64:         }
65:
66:     }
```