

## Ciag.java

```
01: // plik 06_TryCatch_1/Ciag.java
02:
03: import java.util.*; // Scanner, InputMismatchException
04:
05: public class Ciag {
06:
07:     static String NL = System.getProperty("line.separator");
08:
09:     public static void main(String[] args) {
10:
11:         Scanner scan = new Scanner(System.in);
12:
13:         while(true) {
14:             System.out.print("Podaj liczb\u0119 ca\u0142" +
15:                 "kowit\u0105 wi\u0119ksz\u0105 od jedynek" +
16:                 "i lub 0 aby sko\u0144czy\u0107: ");
17:
18:             int k = 0;
19:             try {
20:                 k = scan.nextInt();
21:             } catch(InputMismatchException e) {
22:                 System.out.println("To nie liczba!");
23:                 scan.skip(".*");
24:                 continue;
25:             }
26:
27:             if ( k == 0 ) System.exit(0);
28:
29:             if ( k <= 1 ) {
30:                 System.out.println("Za ma\u0142a liczba");
31:                 continue;
32:             }
33:
34:             System.out.println("Wartosc startowa: " + k);
35:             int cnt = 0;
36:             while ( k > 1 ) {
```

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37:         if (k%2 == 0)
38:             k /= 2;
39:         else
40:             k = 3*k+1;
41:         cnt++;
42:         System.out.printf("a[%3d] = %3d%s",
43:                             cnt, k,NL);
44:     }
45: }
46: }
47: }
```