

```
1  public class disariumNumber {
2      int num;
3      int size;
4
5      disariumNumber(int nn) {
6          this.num = nn;
7          this.size = 0;
8      }
9
10     public static void main(String[] args) {
11         disariumNumber o = new disariumNumber(135);
12         o.countDigit();
13         o.check();
14         System.out.println(o.sumOfDigits(135, 3));
15
16         disariumNumber o2 = new disariumNumber(89);
17         o2.countDigit();
18         o2.check();
19         System.out.println(o2.sumOfDigits(89, 2));
20
21         disariumNumber o3 = new disariumNumber(80);
22         o3.countDigit();
23         o3.check();
24         System.out.println(o3.sumOfDigits(80, 2));
25     }
26
27     void countDigit() {
28         this.size = String.valueOf(this.num).length();
29     }
30
31     int sumOfDigits(int n, int p) {
32         return p == 0 ? 0 : (int) Math.pow(n % 10, p) +
33             this.sumOfDigits(n / 10, p - 1);
34     }
35
36     void check() {
37         if (this.num == this.sumOfDigits(this.num, this.size)) {
38             System.out.println("true");
39         } else {
40             System.out.println("false");
41         }
42     }
43 }
```