

剑指offer第11题

```
1 package niuke;
2
3 import java.util.ArrayList;
4 import java.util.Collections;
5 import java.util.List;
6
7 /**
8  * @author tfxidian E-mail: tfxidian@163.com
9  * @version 创建时间: 2018年10月11日 下午4:30:56
10  * 类说明
11  */
12 public class NumberOf1Test {
13
14     public static void main(String[] args) {
15
16
17         int result = NumberOf1(5);
18         System.out.println(result);
19
20     }
21
22
23     public static int NumberOf1(int n) {
24
25         if (n == 0) {
26             return 0;
27         }
28         if (n < 0) {
29             String string = Integer.toBinaryString(n);
30             char array[] = string.toCharArray();
31             int count = 0;
32             for (int i = 0; i < array.length; i++) {
33                 if (array[i] == '1') {
34                     count++;
35                 }
36             }
37
38             return count;
39         }
40
41
42         List<Integer> aList = new ArrayList<Integer>();
```

```
43     int d = 0;
44
45     while (n!=1) {
46         d = n%2;
47         n=n/2;
48         aList.add(d);
49     }
50     aList.add(1);
51
52     Collections.reverse(aList);
53     int number = 0;
54     for (Integer integer : aList) {
55         if (integer == 1) {
56             number++;
57         }
58     }
59
60     return number;
61 }
62 }
63
```