```
File - /Users/alu/Documents/dev/intellij-projects/edu_java-programming-masterclass/05-67_While_DoWhile_break_continue/src/com/publicept/Main.java
 1 package com.publicept;
 3 import org.w3c.dom.ls.LSOutput;
 5
 6
 8
    * main(String[] args)
 9
    * isEvenNumber(int number)
10
11 public class Main {
12
        public static void main(String[] args) {
13
14
15
16
                while (condition == true) {
17
                     -> increment loopCounter++;
18
19
20
            int loopCounter = 0; // counter variable must be declared before the while statement
21
22
23
            while (loopCounter < 5) {
    System.out.println("Count value is: " + loopCounter);</pre>
24
                                    // increment count manually
                 loopCounter++;
25
26
            System.out.println();
27
29
30
31
32
33
34
                while (true) {
                     if(condition) -> break;
                     increment++;
35
            loopCounter = 0;
                                    // count variable must be declared before the while statement
36
            while (true) { // endless loop
                if(loopCounter >= 5) {
39
40
                      * break out of while loop
41
42
43
                     break;
44
                 System.out.println("Count value is: " + loopCounter);
45
                 loopCounter++;
46
47
            System.out.println("Skip values > 4");
48
            System.out.println();
49
50
51
52
             * do { } while (condition);
53
54
             * -> always executed at least once
55
            loopCounter = 0;
56
57
            do {
                 System.out.println("Count value was: " + loopCounter);
                 loopCounter++;
60
            } while (loopCounter < 5);</pre>
61
            System.out.println();
62
63
64
65
             * continue & break
66
67
            int number = 0;
68
69
            while (number < 15) {</pre>
70
71
72
73
74
75
76
                number++;
                 if(number \ll 5) {
                     System.out.println("Skipping number " + number);
                      * continue while loop...
77
                     continue;
78
                }
79
80
                 System.out.println("Current number is " + number);
81
82
                 if(number >= 10) {
                     System.out.println("Breaking at " + number);
83
84
                      * break out of while loop!
85
86
87
                     break;
88
89
90
            System.out.println();
91
92
93
             * Challenge
94
95
             * List even numbers within a range
96
                     > continue
             */
```

```
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 98
              // Modify the while code below
              // Make it also record the total number of even numbers it has found // and break once 5 are found
 99
100
101
              // and at the end, display the total number of even numbers found
102
103
104
              loopCounter = 0;
105
              int finishNumber = 20;
106
              int maxCount = 5;
107
              while (number <= finishNumber) {</pre>
108
109
                  number++:
110
111
112
                  if(!isEvenNumber(number)) {
113
114
                        * continue while loop...
115
116
                       continue;
                                         // Go back to the start of the loop without executing the code below!
                  }
117
118
                  System.out.println("Even number " + number);
                                                                      // executed only if number is even!
119
120
121
                  loopCounter++:
122
123
                   // break while loop after maxCount number of even numbers were found!
124
                  if (loopCounter >= maxCount) {
125
                       break;
126
              }
127
128
              System.out.println("Total even numbers found: " + loopCounter);
129
         }
130
131
132
133
134
          * isEvenNumber()
135
          * @param number number to be tested as even
136
          * @return even number (=true), odd number (=false)
137
         // Create a method called isEvenNumber that takes a parameter of type int
138
         // Its purpose is to determine if the argument passed to the method is
139
         // an even number or not.
// return true if an even number, otherwise return false;
public static boolean isEvenNumber(int number) {
140
141
142
143
144
              if(number % 2 == 0) {
145
                  return true;
146
              } else {
147
                  return false;
148
         }
149
150 }
```

151