SimplePalindrome.java

```
1 package examples;
 3 public class SimplePalindrome {
 5
       * Returns true if the input string is a <u>palindrome</u>
 6
 7
       * (reads the same backwards and forwards)
 8
 9
       * For example the string "aba" is a palindrome.
10
       * The string "abc" is not because abc backwards is cba
11
12
       * Spaces are not considered special in this palindrome.
       * See sentence for a more complex <u>palindrome</u> problem.
13
14
15
       * @param input
16
       * @return
17
18
      public static boolean isPalindrome(String input) {
19
          if(input.length() <= 1)</pre>
20
               return true;
21
          if(input.charAt(0) != input.charAt(input.length() -1)) {
22
               return false:
23
          }
24
          return isPalindrome(input.substring(1,input.length()-1));
25
      }
26
27
28
       * Returns true if the input array is a palindrome.
29
30
       * For example, the array {1,2,1} is a palindrome.
31
       * The array {1, 2, 3} is not.
32
33
       * This problem is much easier with the use of
34
         a helper method.
35
       * @param input
36
37
       * @return
38
       */
39
      public static boolean isPalindromeIntArray(int[] input) {
          return isPalindromeIntArrayHelper(input, 0, input.length - 1);
40
41
      }
42
      public static boolean isPalindromeIntArrayHelper(int[] input, int leftPosition, int
43
  rightPosition) {
44
          if(leftPosition >= rightPosition)
45
               return true;
          if(input[leftPosition] != input[rightPosition])
46
47
               return false;
48
          return isPalindromeIntArrayHelper(input, leftPosition + 1, rightPosition - 1);
49
      }
50
51}
52
```