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Due Sep 14 at 11:59pm Points 100 Questions 10

Available after Sep 1 at 12am Time Limit 30 Minutes

Allowed Attempts 3

Take the Quiz Again

Attempt History

	Attempt	Time	Score	
LATEST	Attempt 1	21 minutes	100 out of 100	

(!) Correct answers are hidden.

Score for this attempt: **100** out of 100

Submitted Sep 14 at 12:55pm This attempt took 21 minutes.

Question 1	10 / 10 pts
Some loops in Java cannot be implemented recursively.	
O True	
False	

Question 2 10 / 10 pts

The recursive call(s) to a method must be located outside the method body.



O True		
False		

Question 3	10 / 10 pts
Recursive calls from method are not pushed on to the	ne call stack.
O True	
False	

Assuming that a Java program contains a method that calls itself recursively infinitely, running this Java program with a call to the recursive method will lead to a stack overflow exception. True False

Question 5 10 / 10 pts

Any recursive method can be implemented using an iterative approach (using loops).

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True		
O False		

```
Question 6

public static long func1(int n) {
  if (n == 2) return 0;
  return n * func1(n-1);
}

What does func1(5) return?

24

30

0

0

60
```

```
public static long func2(int n) {
  if (n == 0) return 0;
  if (n == 1) return 1;
  return func2(n-1) + func2(n-2);
}
What does func2(3) return?
```

•

2			
O 5			
O 0			
0 1			

```
public static long func2(int n) {
  if (n == 1) return 0;
  if (n == 0) return 1;
  return func2(n-1) + func2(n-2);
}
What does func2(5) return?
1
2
3
0
```

```
Question 9

10 / 10 pts

public static void func4(int n) {
  System.out.print(n + " ");
  if (n == 1) return;
```

|

```
Question 10

public static void func4(int n) {
    System.out.print(n + " ");
    if (n == 1) return;
    if (n % 2 == 0) func4(n / 2);
    else func4(3*n + 1);
}

What is the output for func4(4)?

• 421

• 63105168421

• 5168421

• 58542
```

Quiz Score: 100 out of 100

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