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Fall 2018 - **Week 9**

Fall 2018 - COM SCI132-1 - PALSBERG

Started on Tuesday, 20 November 2018, 4:16 PM PST

State Finished

Completed on Tuesday, 20 November 2018, 4:17 PM PST

Time taken 34 secs

Grade 10.00 out of 10.00 (100%)

Question **1**

Correct

2.00 points out of 2.00

A function in tail form always returns a boolean.

Select one:

- True
- False ✓

The correct answer is 'False'.

Question **2**

Correct

2.00 points out of 2.00

The following Java expression is in tail form:

`x.f(1) + y.g(2)`

Select one:

- True
- False ✓

The correct answer is 'False'.

Question 3

Correct

2.00 points out of 2.00

The following Java expression is simple:

(b) ? 1 : x.f(2)

Select one:

- True
- False ✓

The correct answer is 'False'.

Question 4

Correct

2.00 points out of 2.00

In some cases we can represent a continuation as an integer.

Select one:

- True ✓
- False

The correct answer is 'True'.

Question 5

Correct

2.00 points out of 2.00

The transformation rules on the slides p.12-13 will transform from this Java code:

```
static Function<...>
f =
    n ->
        n <= 2 ?
            1
            : f.apply(n-1) + f.apply(n-2);
```

to this Java code:

```
static BiFunction<...>
fCPS =
    (n,k) ->
        n <= 2 ?
            k.apply(1)
            : fCPS.apply(
                n-1,
                v1 -> fCPS.apply(
                    n-2,
                    v2 -> k.apply(v1 + v2)));
```

Select one:

- True ✓
- False

The correct answer is 'True'.

