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 $\begin{array}{ll} \text{Grade} & \text{Latest Subm} \\ \text{received 100\%} & \text{Grade 100\%} \end{array}$

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1.	Which of these are correct ways to instantiate a function type. Select all that apply.	1 / 1 point
	✓ Using a lambda expression. ⊘ Correct	
	Correct! You can use a lambda expression to instantiate a function type.	
	Using instance of a user defined class that implements a function type as an interface.	
	Correct Correct! You can instantiate a function using a defined class that implements a function type as an interface.	
	Using the function name.	
	✓ Using a callable reference to existing declaration using the '∷' operator	
2.	Which of these is a correct usage of lambda expression for the given function definition?	1/1 point
	<pre>1 fun execute(number: Int, function: (Int) -> String) { 2 println(function(number)) 3 }</pre>	
	<pre> execute("Score") { "\$it 100" }</pre>	
	<pre>execute(100) { "Score \$it" }</pre>	
	<pre>execute(100) ("Score \$it")</pre>	
	Correct Correct! The above function takes in an 'Int' argument and then prints a string by concatenating it with the 'Score'.	
3.	Which of the these is a correct lambda expression syntax?	1/1 point
	O val difference: (Int, Int) -> Int = x: Int, y: Int -> { x - y }	
	wal difference: (Int, Int) → Int = { x: Int, y: Int → x - y }	
	O val difference: (Int, Int) -> Int = x : Int, y : Int -> x - y	
	○ Correct Correct! This is the correct syntax	
4.	Which listener interface provided by the Android framework is used to listen for a button press event?	1/1 point
	View.OnClickListener	
	O View.OnTapListener	
	○ View.OnPressListener	
	Correct Correct! The 'View' class contains an interface 'OnClickListener' that has a method 'onClick' which gets called on events such as a button press.	
5.	Which of these are higher-order functions? Select all that apply.	1 / 1 point
	fun display(x: (Int)) -> Unit	
	✓ fun display(): (Int) -> Unit	

 \bigcirc Correct Correct! This is a higher-order function as it returns a function. fun display(x: (Int) -> Unit) **⊘** Correct Correct! This is a higher-order function as it takes another function as a parameter. fun display(x: Int) : Unit 6. What is the output of this code? 1/1 point val number = 3 var output = 2 repeat(5) { index -> | output += (index * number) println(output) O 47 O 30 32 **⊘** Correct Correct! You correctly calculated the output of the given code. 7. What is the output of the following code? 1/1 point var sum = 0 val numberList = listOf(1, 4, 6, 7, 9)
numberList.forEach { number -> println(sum) O 9 O 1 27 **⊘** Correct Correct! The above code would iterate over each element and then add each element's value to variable named 'sum'. 8. What is the output of this code: 1/1 point data class Chocolate(val flavor: String, val price: Int val list = listof(
 Chocolate("Dark", 7),
 Chocolate("Milk", 4),
 Chocolate("Coffee", 2) val output = list.map { | it.flavor 11 12 println(output) 14 (7, 4, 2) (Dark, Milk, Coffee) $\\ \bigcirc \ \ [Chocolate(flavor=Dark, price=7), Chocolate(flavor=Milk, price=4), Chocolate(flavor=Coffee, price=2)] \\$ Correct! The above code transforms the initial list to a new list that contains values of 'flavor'.

9. What is the output of this code:

- O [Chocolate(flavor=Coffee, price=2)]
- [Chocolate(flavor=Dark, price=7), Chocolate(flavor=Milk, price=4)]
- $\begin{tabular}{ll} \hline \end{tabular} \begin{tabular}{ll} \hline \end{t$
- **⊘** Correct

Correct! The code above filters the 'chocolate' elements that have 'price' > 3, and returns a new list with only those elements that comply to the condition.

10. What is the output of this code:

1/1 point

1/1 point

```
1  val list = listof(9, 3, 1, 6)
2  val output = list.fold(1) { x, y ->
3  | x + y
4  }
5  println(output)
6
```

- O 18
- 20
- O 1
- ✓ Correct

Correct! The fold function accumulates a value starting from the initial value of '1' and then applies the operation to each element in the list.