3: Functions

Answer these questions

Question 1

The `contains(element: String)` function returns `true` if the string `element` is contained in the string it's called on. What will be the output of the following code?

```
val decorations = listOf ("rock", "pagoda", "plastic plant", "alligator", "flowerpot")
println(decorations.filter {it.contains('p')})
```

☐ `[pagoda, plastic, plant]`

☐ `[pagoda, plastic plant]`

✅ `[pagoda, plastic plant, flowerpot]`

☐ `[rock, alligator]`

Question 2

In the following function definition, which one of the parameters is required? `fun shouldChangeWater (day: String, temperature: Int = 22, dirty: Int = 20, numDecorations: Int = 0): Boolean {...}`

☐ `numDecorations`

☐ `dirty`

✅ `day`

☐ `temperature`

Question 3

You can pass a regular named function (not the result of calling it) to another function. How would you pass `increaseDirty( start: Int ) = start + 1` to `updateDirty(dirty: Int, operation: (Int) -> Int)` ?

☐ `updateDirty(15, &increaseDirty())`

☐ `updateDirty(15, increaseDirty())`

☐ `updateDirty(15, ("increaseDirty()"))`

✅ `updateDirty(15, ::increaseDirty)`