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End My Exam

0:03:32

- ▶ About This Course
- ▶ Module 1: Introduction
- ▶ Module 2: Basic Object Oriented Programming
- ▶ Module 3: Case Objects and Classes
- ▶ Module 4: Collections
- ▶ Module 5: Idiomatic Scala
- ▼ **Test your knowledge**
- Test objectives and instructions
- Take the test!** 
Timed Exam
- ▶ Completion Certificate and Badge
- ▶ Course Survey and Feedback

MULTIPLE CHOICE (15/20 points)

A higher-order function allows us to:

- ☐ Be more declarative and not write "how" to perform work
- ☐ Pass a function to a data container
- ☐ Compose multiple transformations within a context
- ☐ Remain immutable
- ☒ All of the above ✓

How does Scala determine types when they are not specified?

- ☐ Implicit typing
- ☐ Type compliance
- ☒ Type inference ✓

- ☐ Dynamic typing
- ☐ Type coercion

What are valid members in objects?


- ☐ Class factories
- ☐ None of the above
- ☒ All of the above ✓
- ☐ Utility methods
- ☐ Constant definitions



- ☐ Method overriding
- ☐ Singleton instances
- ☐ Method overloading
- ☐ Type declarations
- ☒ None of the above ✖

What does the Scala REPL stand for?

- ☒ Read, Evaluate and Print Loop ✔
- ☐ React, Evaluate and Print Loop
- ☐ React, Emulate and Print Loop
- ☐ Read, Emulate and Print Loop
- ☐ Read, Emulate and Process Loop

What is not true about class parameters? 

- ☐ They are automatically immutable
- ☐ You must specify their type
- ☐ They live for the life of the class
- ☐ They are visible to outsiders
- ☒ None are true ✖

What is the maximum number of elements in a tuple?

- ☒ 22 ✔
- ☐ 11

☐ 32

☐ 12

What keyword does not exist in Scala?


☐ new

☐ val

☐ implicit

☐ for

☒ static ✓

Which accessibility rule is not true? 


☐ private is visible within a package

☐ private does not allow outsiders to see a field

☐ public does allow outsiders to see a field

☐ public is not visible outside of a package

☒ All are true ✗

Which are valid collection types in the Scala standard library? 

☐ Vector

☐ ByteSet

☐ HashSeq

☐ LinkedSet

☒ All are valid ✗



☒ Vector ✓

☐ Stream

☐ HashMap

☐ List

☐ Array

Which combination is thread-safe?

☐ val and mutable data

☐ var and mutable data

☐ var and immutable data

☒ val and immutable data ✓

☐ None are thread-safe

Which feature is not synthetically generated for case classes?

☐ Companion object

☒ clone method ✓

☐ equals method

☐ apply and unapply

☐ All are generated

Which is not a valid data container type in Scala?

☐ Try

☐ Future



☐ Option

☐ None of the above

Which is the top-most collection type in the Scala collections hierarchy?

☐ Interpretable

☐ Transformable

☐ Iterable

☒ Traversable ✓

☐ Observable

Which keyword constructs a new instance of a class?

☐ make

☒ new ✓

☐ instance

☐ create

☐ None of the above

Which language cannot be compiled to run on the JVM?

☐ JRuby

☒ C ✓

☐ Clojure

☐ Scala

☐ Java



☐ Statically typed

☐ Multi-Platform

☐ Object-Oriented

☐ Functional

☒ All of the above ✓

Which statement is not true about infix notation?

☐ You can omit parentheses

☒ You can use it when you pass multiple parameters ✓

☐ You can use it with symbolic method names (+, -, etc)

☐ All are true

☐ None are true

Which statement is true about field and method evaluation?

☐ Fields are evaluated at the call site, methods are evaluated at construction

☐ Fields are evaluated at construction, methods are evaluated at the call site

☒ Fields and methods are evaluated at construction

☐ Fields and methods are evaluated at the call site

☐ None of the above

You have used 3 of 3 submissions

