Achieve a multiline statement with operators *without* the semicolon inferer getting it wrong.

```
(x
```

or

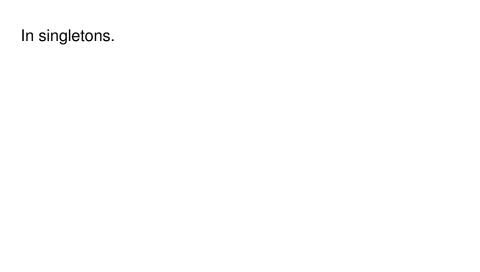
х + У Explain the rules of semicolon inference.

#### The end of the line is treaded as a semicolon unless. - the line ends with a token that isn't a legal end of a

- the line ends while in (...) or [...].

- statement, like a period or infix operator.
- the next line starts with a token that can't start a statement.

Where do Java static methods go in Scala?



### What are three reasons why the Application trait is bad?

- It allows no access to command line arguments.

Application trait.

- Treading limitations make it bad for multithreaded programs.
- HotSpot doesn't optimize an object executed by the

Describe the compile daemon.

Start and compile: fsc Stop: fsc -shutdown

# What do companion object and class have access to?

Each other's private members.

# What is automatically imported into every Scala program?

scala.\_ scala.Predef.\_ java.lang.\_ What can a singleton not do?

It cannot define a new Scala type, but it can still be an instance of a superclass, trait, or companion class.

# What is a singleton object without a companion class called?

It's called a standalone object.

When does a method have a side effect?

If it mutates a state outside a method or performs i/o.

What is a companion object?

It's a singleton object with the same name as the class it shares a source file with.

When is a file a script?

When it ends in a result expression.

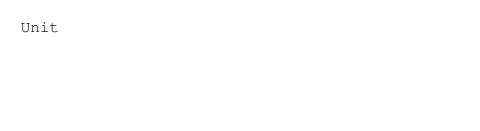
What kind of variable are parameters?

### They are vals.

# Singleton objects have the initialization semantics of what in Java?

#### Statics.

# What in Scala is similar to Java's void return type?



What is the default visibility level in Scala?

Public. Achieved by leaving off the visibility modifier.

What is the program entry point?

### A singleton object with main method that takes Array[String].

The result type is irrelevant.

Describe a good caching data structure.

scala.collection.jcl.WeakHashMap

# What happens if you leave off = before the function body?

The result type automatically becomes Unit.