

Part 4 | Final Exam | 6.005.1x Courseware

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Part 4

An Interview

0.0/4.0 points (graded)

Suppose you are listening to an interview candidate for a software development job. Which statements show that they know what they're talking about?

unanswered

Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.

final

0.0/3.0 points (graded)

Consider the following code, executed in order:

```
char vowel0 = 'a';  
final char vowel1 = vowel0;  
  
String vowel2 = vowel1 + "eiou";  
final String vowel3 = vowel2;  
  
char[] vowel4 = new char[] { vowel0, 'e', 'i', 'o', 'u' };  
final char[] vowel5 = vowel4;
```

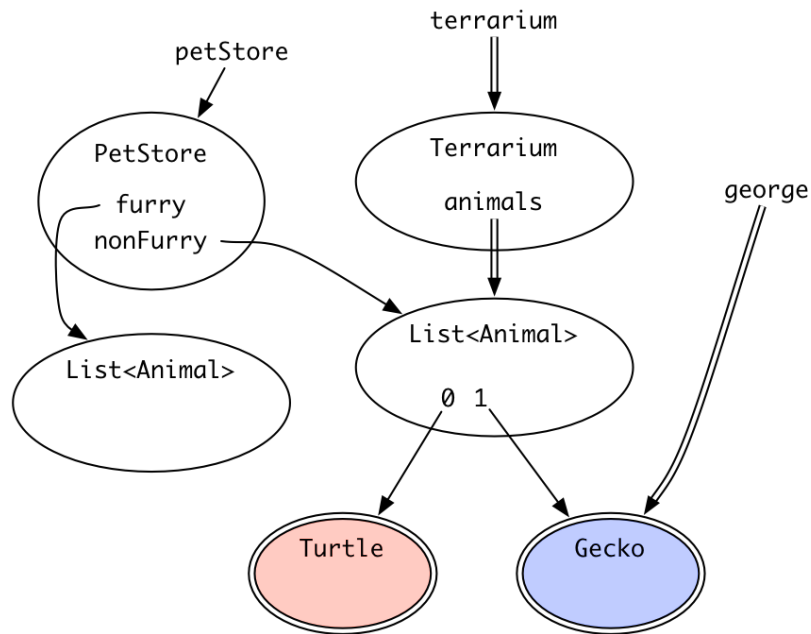
Which of the following statements are legal Java (i.e. produce no compiler error if placed after the code above)? Check all that apply.

unanswered

Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.

Mutability

0.0/4.0 points (graded)



Is it possible that a client with the variable `terrarium` could modify the `Turtle` object in red?

unanswered

Is it possible that a client with the variable `petStore` could do something such that a client with the variable `terrarium` could no longer access the `Gecko` in blue?

unanswered

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Reassignment and Mutation

0.0/3.0 points (graded)

Each of the following lines of Java code declares a variable.

```
String a = "hello";
static String b = "hello";
final String c = a;
final String d = b;
```

For which of the variables does Java guarantee that it won't be reassigned?

unanswered

Each of the following lines of Java code creates a new object.

```
String x = "hello";  
final List<String> y = new ArrayList<>();  
final List<String> z = Collections.unmodifiableList(y);
```

For which of the objects (denoted by the variable pointing to it) does Java guarantee that the object won't be mutated?

unanswered

Some problems have options such as save, reset, hints, or show answer. These options follow the Submit button.

Immutability

0.0/3.0 points (graded)

Which of the following are correct? Check all that apply.

unanswered

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