Midterm Exam Practice Questions – Answer Key

1. Attempting to assign weaker privileges. Fix: Change protected void foo() in Beta to public
2. Same package – will work. Outside package – will not work – cannot access Foo in Alpha
3. Class 'PersonalDevice' must either be declared abstract or implement abstract method 'channelUp()' in 'RemoteControl'
4. 'talk()' cannot override 'talk() in Father' ; overridden method is final
5. Add super.walk() in the walk() method in RussianBlue and Tiger class
6. In Java, if you do not explicitly specify an access modifier (also known as an access specifier) for a method, it will have package-private (default) access. This means that the method is accessible within the same package but not outside of it. Modification: greet() can be made public in Me or both classes can be in the same package
7. Remove void from the constructor
8. Required int, provided double (When ren.quack(3.14) gets called, it calls the quack in the Duck class. The method expects an integer parameter but it receives a double.
9. Cannot resolve method 'boo' in 'Holiday'
10. Non-static field 'captain' cannot be referenced from a static context
11. Class 'SmartPhone' must either be declared abstract or implement abstract method 'dialNumber()' in 'Phone'
12. 'x' is not public in 'Parent'. Cannot be accessed from outside package
13. 1
14. 3
15. No. Cannot assign a value to final variable 'numStudents'
16. Constructing Cup(1)

Constructing Cup(2)

Constructing a SilverTray for elizabeth

Constructing a SilverTray for phillip

Executing the main method

1. Instantiating shape

Drawing Circle radius = 0

Finished drawing shape

Circle has radius = 5

1. GetWellSoon

GetWellSoon

1. Class B can access only z, class D can access y and z
2. class C can access y and z
3. starting foo

in try before f()

finally

main finally

Exception in thread "main" java.lang.Exception

….

1. starting foo

in try before f()

exception occurred

finally

after finally

main finally

Exception in thread "main" java.lang.Exception

….

1. starting foo

in try before f()

exception occurred

finally

main finally

Exception in thread "main" java.lang.Exception

….

1. Cannot resolve symbol 'NotYetImplementedException'
2. Mastiff

Dog

Kromfohrlander

ShibaInu

Mastiff

Mastiff

1. main

starting turlywoops

calling foo

handling exception

finally

main - catch

main - finally

finished program

1. ECDBA

E

A

1. There is no default constructor available in 'PathFinder'
2. x initialized in Generalist

static Generalist

static Specialist

starting program

Generalist()

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Generalist()

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Generalist()

Specialist()

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Generalist()

Specialist()

1. starting program

x initialized in Generalist2

static Generalist2

Generalist2()

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Generalist2()

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static Specialist2

Generalist2()

Specialist2()

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Generalist2()

Specialist2()

1. 1

2

3

4

5

5

4

3

2

1

1. 'change()' in Modifier' clashes with 'change()' in ‘Access'; attempting to assign weaker access privileges ('private'); was 'protected'