Oracle\_RealExamQuestions.Com\_1Z0-851\_v2011-11-09\_265q\_By-Bomas

#### Exam A

```
QUESTION 1
```

```
Given:
```

```
import java.util.*;

public class Quest {
    public static void main(String[] args) {
        String[] colors = {"blue", "red", "green", "yellow", "orange"};
        Arrays.sort(colors);
        int s2 = Arrays.binarySearch(colors, "orange");
        int s3 = Arrays.binarySearch(colors, "violet");
        System.out.println(s2 + " " + s3);
    }
}
```

#### What is the result?

- A. 2-1
- B. 2-4
- C. 2-5
- D. 3-1
- E. 3-4
- F. 3-5
- G. Compilation fails.
- H. An exception is thrown at runtime.

#### **Correct Answer:** C

# **QUESTION 2**

Given:

```
class Animal {
    public String noise() {
        return "peep";
    }
}

class Dog extends Animal {
    public String noise() {
        return "bark";
    }
}

class Cat extends Animal {
    public String noise() {
        return "meow";
    }
}

30. Animal animal = new Dog();
31. Cat cat = (Cat)animal;
32. System.out.println(cat.noise());
```

## What is the result?

- A. peep
- B. bark
- C. meow
- D. Compilation fails.
- E. An exception is thrown at runtime.

```
Correct Answer: E
QUESTION 3
Given:
class TestA {
    public void start() { System.out.println("TestA"); }
public class TestB extends TestA {
    public void start() { System.out.println("TestB"); }
    public static void main(String[] args) {
        ((TestA) new TestB()).start();
}
What is the result?
A. TestA
B. TestB
C. Compilation fails.
D. An exception is thrown at runtime.
Correct Answer: B
QUESTION 4
Given:
class Alpha {
    public void foo() { System.out.print("Afoo "); }
public class Beta extends Alpha {
    public void foo() { System.out.print("Bfoo "); }
    public static void main(String[] args) {
        Alpha a = new Beta();
        Beta b = (Beta)a;
        a.foo();
        b.foo();
What is the result?
A. Afoo Afoo
B. Afoo Bfoo
C. Bfoo Afoo
D. Bfoo Bfoo
E. Compilation fails.
F. An exception is thrown at runtime.
Correct Answer: D
```

# **QUESTION 5**

Given classes defined in two different files:

```
package packageA;
public class Message {
    String getText() {
        return "text";
}
```

```
And:
```

```
package packageB;
public class XMLMessage extends packageA.Message {
    String getText() {
        return "<msg>text</msg>";
    }

    public static void main(String[] args) {
        System.out.println(new XMLMessage().getText());
    }
}
```

What is the result of executing XMLMessage.main?

- A. text
- B. Compilation fails.
- C. <msg>text</msg>
- D. An exception is thrown at runtime.

#### **Correct Answer:** C

# **QUESTION 6**

Given:

```
11. abstract class Vehicle { public int speed() { return 0; }
12. class Car extends Vehicle { public int speed() { return 60; }
13. class RaceCar extends Car { public int speed() { return 150; } ...
21. RaceCar racer = new RaceCar();
22. Car car = new RaceCar();
23. Vehicle vehicle = new RaceCar();
24. System.out.println(racer.speed() + ", " + car.speed() + ", " + vehicle.speed());
```

# What is the result?

- A. 0, 0, 0
- B. 150, 60, 0
- C. Compilation fails.
- D. 150, 150, 150
- E. An exception is thrown at runtime.

# **Correct Answer:** D

#### **QUESTION 7**

Given:

```
21. class Money {
      private String country = "Canada";
22.
      public String getC() { return country; }
23.
24. }
25. class Yen extends Money {
      public String getC() { return super.country; }
27. }
28. public class Euro extends Money {
29. public String getC(int x) { return super.getC(); }
30.
      public static void main(String[] args) {
          System.out.print(new Yen().getC() + " " + new Euro().getC());
31.
32.
33. }
```

- A. Canada
- B. null Canada
- C. Canada null
- D. Canada Canada
- E. Compilation fails due to an error on line 26.
- F. Compilation fails due to an error on line 29.

#### **Correct Answer: E**

# **QUESTION 8**

Given:

```
class A {
   String name = "A";
    String getName() {
       return name;
    String greeting() {
       return "class A";
}
class B extends A {
   String name = "B";
    String greeting() {
        return "class B";
}
public class Client {
   public static void main(String[] args) {
        A = new A();
        A b = new B();
        System.out.println(a.greeting() + " has name " + a.getName());
        System.out.println(b.greeting() + " has name " + b.getName());
}
```

# **Select and Place:**



# **Correct Answer:**



```
Given:
class Foo {
    public int a = 3;
    public void addFive() { a += 5; System.out.print("f"); }
class Bar extends Foo {
    public int a = 8;
    public void addFive() { this.a += 5; System.out.print("b " ); }
Invoked with:
Foo f = new Bar();
f.addFive();
System.out.println(f.a);
What is the result?
A. b3
B. b8
C. b 13
D. f3
E. f8
F. f 13
G. Compilation fails.
H. An exception is thrown at runtime.
Correct Answer: A
QUESTION 10
Given:
class Thingy { Meter m = new Meter(); }
class Component { void go() { System.out.print("c"); } }
class Meter extends Component { void go() { System.out.print("m"); } }
class DeluxeThingy extends Thingy {
    public static void main(String[] args) {
        DeluxeThingy dt = new DeluxeThingy();
        dt.m.go();
        Thingy t = new DeluxeThingy();
        t.m.go();
Which two are true? (Choose two.)
A. The output is mm.
B. The output is mc.
C. Component is-a Meter.
D. Component has-a Meter.
E. DeluxeThingy is-a Component.
F. DeluxeThingy has-a Component.
```

Correct Answer: AF

### **QUESTION 11**

```
Given:
```

```
public class Base {
    public static final String FOO = "foo";

public static void main(String[] args) {
    Base b = new Base();
    Sub s = new Sub();
    System.out.print(Base.FOO);
    System.out.print(Sub.FOO);
    System.out.print(b.FOO);
    System.out.print(s.FOO);
    System.out.print(((Base) s).FOO);
}

class Sub extends Base {
    public static final String FOO = "bar";
}
```

- A. foofoofoofoo
- B. foobarfoobarbar
- C. foobarfoofoo
- D. foobarfoobarfoo
- E. barbarbarbar
- F. foofoofoobarbar
- G. foofoofoobarfoo

# **Correct Answer:** D

# **QUESTION 12**

What is the output of class TestCafe4Java?

```
class SuperCafe4Java {
   public Object get () {
        return ("SuperCafe4Java");
}
class SubCafe4Java extends SuperCafe4Java {
   public String get () {
        return ("SubCafe4Java");
}
class TestCafe4Java {
    public static void main (String[] arguments) {
        SuperCafe4Java superFoo;
        SubCafe4Java subFoo;
        superFoo = new SubCafe4Java();
        System.out.println (superFoo.get());
        subFoo = new SubCafe4Java();
        superFoo = subFoo;
        System.out.println (superFoo.get());
    }
}
```

- A. SubCafe4Java SubCafe4Java
- B. SuperCafe4Java

```
SuperCafe4Java
```

- C. SubCafe4Java SuperCafe4Java
- D. SuperCafe4Java
   SubCafe4Java
- E. Compilation Error
- F. An exception is throw at runtime

#### Correct Answer: A

#### **QUESTION 13**

What is the output of class TestCafe4Java, if the class SubCafe4Java is compiled as follows (using JDK 1.5)?

```
javac -source 1.4 SubCafe4Java.java
class SuperCafe4Java {
   public Object get () {
        return ("SuperCafe4Java");
}
class SubCafe4Java extends SuperCafe4Java {
   public String get () {
       return ("SubCafe4Java");
}
class TestCafe4Java {
   public static void main (String[] arguments) {
        SuperCafe4Java superFoo;
        SubCafe4Java subFoo;
        superFoo = new SubCafe4Java();
        System.out.println (superFoo.get());
        subFoo = new SubCafe4Java();
        superFoo = subFoo;
        System.out.println (superFoo.get());
    }
}
```

- A. SubCafe4Java SubCafe4Java
- B. SuperCafe4Java SuperCafe4Java
- C. SubCafe4Java SuperCafe4Java
- D. SuperCafe4Java SubCafe4Java
- E. Compilation Error
- F. Runtime Exception

# **Correct Answer: E**

#### **QUESTION 14**

What is the output of class TestCafe4Java?

```
class SuperCafe4Java {
    public Object get () {
        return ("SuperCafe4Java");
    }
}
```

```
class SubCafe4Java extends SuperCafe4Java {
    public String get () {
        return ("SubCafe4Java");
    public Object get () {
        return ("SubCafe4JavaObject");
}
class TestCafe4Java {
    public static void main (String[] arguments) {
        SuperCafe4Java superFoo;
        SubCafe4Java subFoo;
        superFoo = new SubCafe4Java();
        System.out.println (superFoo.get());
        subFoo = new SubCafe4Java();
        superFoo = subFoo;
        System.out.println (superFoo.get());
    }
}
A. SubCafe4Java
  SubCafe4Java
B. SuperCafe4Java
  SuperCafe4Java
C. SubCafe4Java
  SuperCafe4Java
D. SuperCafe4Java
  SubCafe4Java
```

# F. Runtime Exception Correct Answer: E

E. Compilation Error

#### **QUESTION 15**

What is the output of class TestCafe4Java?

```
class SuperCafe4Java {
   public Object get (Object o) {
        return ("SuperCafe4Java");
}
class SubCafe4Java extends SuperCafe4Java {
   public Object get (String o) {
       return ("SubCafe4Java");
}
class TestCafe4Java {
    public static void main (String[] arguments) {
        SuperCafe4Java superFoo;
        SubCafe4Java subFoo;
        superFoo = new SubCafe4Java();
        System.out.println (superFoo.get("super"));
        subFoo = new SubCafe4Java();
        superFoo = subFoo;
        System.out.println (superFoo.get("super"));
}
```

```
A. SubCafe4Java
SubCafe4Java
```

- B. SuperCafe4Java SuperCafe4Java
- C. SubCafe4Java SuperCafe4Java
- D. SuperCafe4Java SubCafe4Java
- E. Compilation Error
- F. Runtime Exception

# **Correct Answer:** B

# **QUESTION 16**

Given:

```
08. abstract public class Employee {
09.    protected abstract double getSalesAmount();
10.
11.    public double getCommision() {
12.        return getSalesAmount() * 0.15;
13.    }
14. }
15
16. class Sales extends Employee {
17.    // insert method here
18. }
```

Which two methods, inserted independently at line 17, correctly complete the Sales class? (Choose two.)

```
A. double getSalesAmount() { return 1230.45; }
B. public double getSalesAmount() { return 1230.45; }
C. private double getSalesAmount() { return 1230.45; }
D. protected double getSalesAmount() { return 1230.45; }
```

# Correct Answer: BD

public class SimpleCalc {
 public int value;

# **QUESTION 17**

Given:

```
public void calculate() { value += 7; }

and:

public class MultiCalc extends SimpleCalc {
   public void calculate() { value -= 3; }
   public void calculate(int multiplier) {
      calculate();
      super.calculate();
      value *= multiplier;
   }

   public static void main(String[] args) {
      MultiCalc calculator = new MultiCalc();
      calculator.calculate(2);
      System.out.println("Value is: " + calculator.value);
   }
}
```

What is the result?

- A. Value is: 8
- B. Compilation fails.
- C. Value is: 12
- D. Value is: -12
- E. The code runs with no output.
- F. An exception is thrown at runtime.

#### Correct Answer: A

```
QUESTION 18
```

```
Given:
```

```
10. public class SuperCalc {
      protected static int multiply(int a, int b) { return a * b;}
12. }
and:
20. public class SubCalc extends SuperCalc{
21. public static int multiply(int a, int b) {
          int c = super.multiply(a, b);
22.
23.
          return c;
24.
      }
25. }
and:
30. SubCalc sc = new SubCalc ();
31. System.out.println(sc.multiply(3,4));
32. System.out.println(SubCalc.multiply(2,2));
```

# What is the result?

- A. 12
- B. The code runs with no output.
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error in line 21.
- E. Compilation fails because of an error in line 22.
- F. Compilation fails because of an error in line 31.

# **Correct Answer: E**

# **QUESTION 19**

Given:

```
abstract class A {
    abstract void a1();
    void a2() {
    }
}
class B extends A {
    void a1() {
    }

    void a2() {
    }
}
class C extends B {
    void c1() {
```

```
}
And:
A \times = new B();
C y = new C();
Az = new C();
What are four valid examples of polymorphic method calls? (Choose four.)
A. x.a2();
B. z.a2();
C. z.c1();
D. z.a1();
E. y.c1();
F. x.a1();
Correct Answer: ABDF
QUESTION 20
Given:
09. class One {
10.
     void foo() { }
11. }
12.
13. class Two extends One {
14. //insert method here
Which three methods, inserted individually at line 14, will correctly complete class Two? (Choose three.)
A. int foo() { /* more code here */ }
B. void foo() { /* more code here */ }
C. public void foo() { /* more code here */ }
D. private void foo() { /* more code here */ }
E. protected void foo() { /* more code here */ }
Correct Answer: BCE
QUESTION 21
Given:
01. public class Blip {
02. protected int blipvert(int x) { return 0; }
03. }
04. class Vert extends Blip {
05.
      // insert code here
06.}
Which five methods, inserted independently at line 5, will compile? (Choose five.)
A. public int blipvert(int x) { return 0; }
B. private int blipvert(int x) { return 0; }
C. private int blipvert(long x) { return 0; }
D. protected long blipvert(int x) { return 0; }
E. protected int blipvert(long x) { return 0; }
F. protected long blipvert(long x) { return 0; }
G. protected long blipvert(int x, int y) { return 0; }
```

```
Correct Answer: ACEFG
QUESTION 22
Given:
class One {
   public One foo() {
        return this;
}
class Two extends One {
   public One foo() {
        return this;
}
class Three extends Two {
   // insert method here
Which two methods, inserted individually, correctly complete the Three class? (Choose two.)
A. public void foo() {}
B. public int foo() { return 3; }
C. public Two foo() { return this; }
D. public One foo() { return this; }
E. public Object foo() { return this; }
Correct Answer: CD
QUESTION 23
Given:
01. public class Hi {
02. void m1() { }
03.
       protected void() m2 { }
04.}
05.
06. class Lois extends Hi {
07.
      // insert code here
08.}
Which four code fragments, inserted independently at line 7, will compile? (Choose four.)
A. public void m1() { }
B. protected void m1() { }
C. private void m1() { }
D. void m2() { }
E. public void m2() { }
F. protected void m2() { }
G. private void m2() { }
Correct Answer: ABEF
QUESTION 24
Given:
```

public class ItemTest {
 private final int id;

```
public ItemTest(int id) {
        this.id = id;
}

public void updateId(int newId) {
        id = newId;
}

public static void main(String[] args) {
        ItemTest fa = new ItemTest(42);
        fa.updateId(69);
        System.out.println(fa.id);
}
```

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. The attribute id in the ItemTest object remains unchanged.
- D. The attribute id in the ItemTest object is modified to the new value.
- E. A new ItemTest object is created with the preferred value in the id attribute.

# **Correct Answer:** A

#### **QUESTION 25**

Given:

```
public class Pass {
    public static void main(String [] args) {
        int x = 5;
        Pass p = new Pass();
        p.doStuff(x);
        System.out.print(" main x = " + x);
    }

    void doStuff(int x) {
        System.out.print(" doStuff x = " + x++);
    }
}
```

# What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. doStuff x = 6 main x = 6
- D. doStuff x = 5 main x = 5
- E. doStuff x = 5 main x = 6
- F. doStuff x = 6 main x = 5

# Correct Answer: D

# **QUESTION 26**

Given:

```
public class Pass2 {
   public void main(String [] args) {
     int x = 6;
     Pass2 p = new Pass2();
     p.doStuff(x);
     System.out.print(" main x = " + x);
}
```

```
void doStuff(int x) {
        System.out.print(" doStuff x = " + x++);
}
And the command-line invocations:
javac Pass2.java
java Pass2 5
What is the result?
A. Compilation fails.
B. An exception is thrown at runtime.
C. doStuff x = 6 main x = 6
D. doStuff x = 6 main x = 7
E. doStuff x = 7 main x = 6
F. doStuff x = 7 main x = 7
Correct Answer: B
QUESTION 27
View the followin code:
class Foo {
   private int x;
    public Foo( int x ) { this.x = x;}
    public void setX( int x ) { this.x = x; }
    public int getX() { return x;}
public class Gamma {
    static Foo fooBar(Foo foo) {
        foo = new Foo(100);
        return foo;
    public static void main(String[] args) {
         Foo foo = new Foo( 300 );
        System.out.println( foo.getX() + "-");
        Foo fooFoo = fooBar(foo);
        System.out.println(foo.getX() + "-");
        System.out.println(fooFoo.getX() + "-");
        foo = fooBar( fooFoo);
        System.out.println( foo.getX() + "-");
        System.out.println(fooFoo.getX());
    }
}
What is the output of the program shown in the exhibit?
A. 300-100-100-100
B. 300-300-100-100-100
C. 300-300-300-100-100
D. 300-300-300-100
```

**Correct Answer:** B

**QUESTION 28** 

```
Given:
```

```
public class ClassA {
    public void methodA() {
        ClassB classB = new ClassB();
        classB.getValue();
    }
}
class ClassB {
    public ClassC classC;
    public String getValue() {
        return classC.getValue();
}
class ClassC {
    public String value;
    public String getValue() {
        value = "ClassB";
        return value;
    }
}
and:
ClassA a = new ClassA();
a.methodA();
```

- A. Compilation fails.
- B. ClassC is displayed.
- C. The code runs with no output.
- D. An exception is thrown at runtime.

# **Correct Answer:** D

# **QUESTION 29**

Given:

```
public class Batman {
    int squares = 81;
    public static void main(String[] args) {
        new Batman().go();
    }
    void go() {
        incr(++squares);
        System.out.println(squares);
    }
    void incr(int squares) { squares += 10; }
}
```

# What is the result?

- A. 81
- B. 82
- C. 91
- D. 92
- E. Compilation fails.
- F. An exception is thrown at runtime.

#### Correct Answer: B

#### **QUESTION 30**

Given classes defined in two different files:

What is required at line 6 in class SomeApp to use the process method of BitUtils?

```
A. process(bytes);
B. BitUtils.process(bytes);
C. util.BitUtils.process(bytes);
D. SomeApp cannot use methods in BitUtils.
E. import util.BitUtils.*;
   process(bytes);
```

#### **Correct Answer:** C

# **QUESTION 31**

Which three code fragments, added individually at line 29, produce the output 100? (Choose three.)

```
10. class Inner {
11. private int x;
12.
     public void setX( int x ) { this.x = x; }
13.
      public int getX() { return x;}
14. }
15.
16. class Outer {
17. private Inner y;
      public void setY( Inner y ) { this.y = y; }
18.
      public Inner getY() { return y; }
19.
20. }
21.
22. public class Gamma {
23. public static void main(String[] args) {
24.
          Outer o = new Outer();
25.
          Inner i = new Inner();
26.
          int n = 10;
27.
          i.setX(n);
28.
         o.setY(i);
29.
          // insert code here
30.
          System.out.println(o.getY().getX());
     }
31.
32.}
A. n = 100;
B. i.setX( 100 );
C. o.getY().setX( 100 );
```

```
D. i = new Inner();
    i.setX( 100 );
E. o.setY( i );
    i = new Inner();
    i.setX( 100 );
F. i = new Inner();
    i.setX( 100 );
    o.setY( i );
```

**Correct Answer: BCF** 

#### **QUESTION 32**

Given:

```
04. class Payload {
      private int weight;
06.
       public Payload (int w) { weight = w; }
07.
      public void setWeight(int w) { weight = w; }
08.
      public String toString() { return Integer.toString(weight); }
09. \}
10.
11. public class TestPayload {
       static void changePayload(Payload p) { /* insert code */ }
13.
       public static void main(String[] args) {
14.
          Payload p = new Payload(200);
15.
           p.setWeight(1024);
16.
           changePayload(p);
17.
           System.out.println("p is " + p);
18.
       }
19. }
```

Which code fragment, inserted at the end of line 12, produces the output p is 420?

```
A. p.setWeight(420);
B. p.changePayload(420);
C. p = new Payload(420);
D. Payload.setWeight(420);
E. p = Payload.setWeight(420);
```

#### **Correct Answer:** A

# **QUESTION 33**

Given classes defined in two different files:

What is required at line 5 in class SomeApp to use the process method of BitUtils?

```
A. process(bytes);
B. BitUtils.process(bytes);
C. app.BitUtils.process(bytes);
```

```
D. util.BitUtils.process(bytes);
E. import util.BitUtils.*;
    process(bytes);
```

F. SomeApp cannot use the process method in BitUtils.

#### **Correct Answer: F**

#### **QUESTION 34**

Click the Exhibit button

```
1. public class A {
2.
      public void method1(){
3.
       B b = new B();
4.
         b.method2();
5.
         // more code here
6.
     }
7. }
1. public class B{
2.
    public void method2() {
3.
       C c = new C();
4.
         c.method3();
5.
          // more code here
6.
      }
7. }
1. public class C {
    public void method3(){
         // more code here
3.
4.
5. }
Given:
25. try {
26. A a = new A();
27.
      a.method1();
28. } catch (Exception e) {
29.
      System.out.print("an error occurred");
30. }
```

Which two statements are true if a NullPointerException is thrown on line 3 of class C? (Choose two.)

- A. The application will crash.
- B. The code on line 29 will be executed.
- C. The code on line 5 of class A will execute.
- D. The code on line 5 of class B will execute.
- E. The exception will be propagated back to line 27.

# **Correct Answer: BE**

# **QUESTION 35**

Given:

```
1. public class A {
2.    public void doit() {
3.    }
4.
5.    public String doit() {
6.       return "a";
7.    }
```

```
8.
9.    public double doit(int x) {
10.        return 1.0;
11.    }
12.}
```

- A. An exception is thrown at runtime.
- B. Compilation fails because of an error in line 9.
- C. Compilation fails because of an error in line 5.
- D. Compilation succeeds and no runtime errors with class A occur.

# **Correct Answer:** C

#### **QUESTION 36**

Given:

```
public class Yikes {
    public static void go(Long n) {
        System.out.print("Long ");
    }

    public static void go(Short n) {
        System.out.print("Short ");
    }

    public static void go(int n) {
        System.out.print("int ");
    }

    public static void main(String[] args) {
        short y = 6;
        long z = 7;
        go(y);
        go(z);
    }
}
```

What is the result?

- A. int Long
- B. Short Long
- C. Compilation fails.
- D. An exception is thrown at runtime.

#### **Correct Answer:** A

# **QUESTION 37**

Given

```
1. public class A {
2.    public String doit(int x, int y) {
3.        return "a";
4.    }
5.    6.    public String doit(int... vals) {
7.        return "b";
8.    }
9. }
```

```
and:
```

```
25. A a = new A();
26. System.out.println(a.doit(4, 5));
```

- A. Line 26 prints "a" to System.out.
- B. Line 26 prints "b" to System.out.
- C. An exception is thrown at line 26 at runtime.
- D. Compilation of class A will fail due to an error in line 6.

#### Correct Answer: A

### **QUESTION 38**

Given:

```
public class Barn {
    public static void main(String[] args) {
        new Barn().go("hi", 1);
        new Barn().go("hi", "world", 2);
    }

    public void go(String... y, int x) {
        System.out.print(y[y.length - 1] + " ");
    }
}
```

#### What is the result?

- A. hi hi
- B. hi world
- C. world world
- D. Compilation fails.
- E. An exception is thrown at runtime.

# **Correct Answer:** D

#### **QUESTION 39**

Given:

```
1. public class Venus {
2.
      public static void main(String[] args) {
3.
           int[] x = { 1, 2, 3 };
4.
           int y[] = { 4, 5, 6 };
5.
           new Venus().go(x, y);
6.
       }
7.
      void go(int[]... z) {
8.
9.
          for (int[] a : z)
10.
               System.out.print(a[0]);
11.
       }
12.}
```

# What is the result?

- A. 1
- B. 12
- C. 14
- D. 123

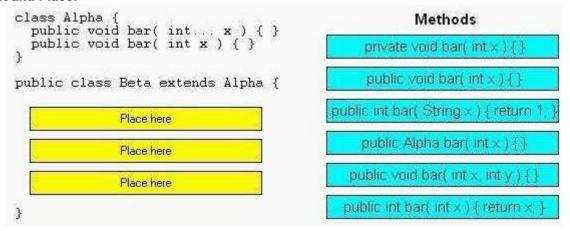
- E. Compilation fails.
- F. An exception is thrown at runtime.

# **Correct Answer:** C

#### **QUESTION 40**

Add methods to the Beta class to make it compile correctly.

# **Select and Place:**



# **Correct Answer:**

