1. How do you determine the number of elements in an array?

**A. buses.length**

B. buses.length()

C. buses.size

D. buses.size()

2. Which type of loop is best known for using an index or counter?

A. do-while loop

**B. for (traditional)**

C. for-each

D. while

3. Which type of loop is guaranteed to have the body execute at least once?

**A. do-while loop**

B. for (traditional)

C. for-each

D. while

4. Which of the following can loop through an array without referring to the elements by

index?

A. do-while loop

B. for (traditional)

**C. for-each**

D. while

5. What is the command to call one constructor from another constructor in the same

class?

A. super()

**B. this()**

C. that()

D. construct()

6. What is the output of the following application?

package stocks;

public class Bond {

private static int price = 5;

public boolean sell() {

if(price<10) {

price++;

return true;

} else if(price>=10) {

return false;

}

}

public static void main(String[] cash) {

new Bond().sell();

new Bond().sell();

new Bond().sell();

System.out.print(price);

}

}

A. 5

B. 6

C. 8

**D. The code does not compile**

7. Which line of code, inserted at line p1, causes the application to print 5?

package games;

public class Jump {

private int rope = 1;

protected boolean outside;

public Jump() {

// p1

outside = true;

}

public Jump(int rope) {

this.rope = outside ? rope : rope+1;

}

public static void main(String[] bounce) {

System.out.print(new Jump().rope);

}

}

**A. this(4);**

B. new Jump(4);

C. this(5);

D. rope = 4;

8. What is a possible output of the following application?

package wrap;

public class Gift {

private final Object contents;

protected Object getContents() {

return contents;

}

protected void setContents(Object contents) {

this.contents = contents;

}

public void showPresent() {

System.out.print("Your gift: "+contents);

}

public static void main(String[] treats) {

Gift gift = new Gift();

gift.setContents(gift);

gift.showPresent();

}

}

**A. Your gift: wrap.Gift@29ca2745**

B. Your gift: Your gift:

C. It does not compile.

D. It compiles but throws an exception at runtime

9. How many lines of the following program contain compilation errors?

package sky;

public class Stars {

private int inThe = 4;

public void Stars() {

super();

}

public Stars(int inThe) {

this.inThe = this.inThe;

}

public static void main(String[] endless) {

System.out.print(new sky.Stars(2).inThe);

}

}

A. None

**B. One**

C. Two

D. Three

10. Which of the following statements is true?

A. An instance method is allowed to reference a static variable.

B. A static method is allowed to reference an instance variable.

C. A static initialization block is allowed to reference an instance variable.

D. A final static variable may be set in a constructor.