Syracuse University   Blackboard @ SU   **Courses**   Organiz   Doung Lan Cheung ▼

🏠 | Assignments Quiz **Review Test Submission: Quiz 2**

Review Test Submission: Quiz 2

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Course	CIS.351.M001.SPRING20.Data Structures
Test	Quiz 2
Started	2/6/20 2:38 PM
Submitted	2/6/20 2:39 PM
Due Date	2/8/20 11:59 PM
Status	Completed
Attempt Score	100 out of 100 points
Time Elapsed	0 minute out of 30 minutes
Results Displayed	All Answers, Submitted Answers, Correct Answers

Question 1   10 out of 10 points

What will be displayed as a result of executing the following code?

```
public class Test
{   public static void main (String [] args)
    {
        int value1;
        int value2;
        int value3;

        value1 = 9;
        System.out.println(value1);
        value2 = 45;
        System.out.println(value2);
        System.out.println(value3);
        value3 = 16;
    }
}
```

Selected Answer: Nothing, it will generate a compile error
                    ✅ d.

Answers:
                       9

                       45

                       16
                    a.

                       94516
                    b.

c. 9 45 16

                    Nothing, it will generate a compile error
                ✅ d.

Question 2   10 out of 10 points

Which of the following is valid, given that the following variables are declared:

int cost, double taxRate, float interestRate, long count

Selected Answer: count = cost;
                    ✅ c.

Answers: interestRate = taxRate;
                        a.

                           cost = taxRate;
                        b.

                           count = cost;
                    ✅ c.

                           cost = count;
                        d.

Question 3   5 out of 5 points

Assume that the following method header is for a method in class A.

```
public void displayValue(int value)
```

Assume that the following code segments appear in another method, also in class A. Which contains a legal call to the displayValue method?

Selected Answer: `int x = 7;`
                    ✅ b. `displayValue(x);`

Answers: `int x = 7;`
                    a. `void displayValue(x);`

                       `int x = 7;`
                    ✅ b. `displayValue(x);`

                       `int x = 7;`
                    c. `displayValue(int x);`

                       `int x = 7;`
                    d. `x.displayValue();`

Question 4
10 out of 10 points

How many arguments are passed to the printf method?

```
System.out.printf("Hello %s, the time is %02d:%02d.\n",
        first + " " + last, hour - 2, minute);
```

Selected Answer: ✓ c. 4

Answers:
    a. 5

    b. 2

    ✓ c. 4

    d. 3

Question 5
5 out of 5 points

What is the value of the variable x after the following Java commands are executed, assuming they compile and run without an exception?

double x;

x = (5 / 4) * Math.abs(-257) + 3.0;

Selected Answer: ✓ a. 260

Answers:
    ✓ a. 260

    b. 360

    c. 160

    d. 60

Question 6
5 out of 5 points

Classes with static methods are sometimes referred to as...

Selected Answer: ✓ utility classes

Answers:
    ✓ utility classes

    static classes

    abstract classes

    method classes

Question 7
10 out of 10 points

What will be the output of the following program

---Code---

```
public class Time {
int a = 50;

int b = 10;

public static void main(String args[]) {
a += b--;

System.out.println(a);

 }

}
```

---Code---

Selected Answer: ✓ Compilation Error or Runtime Error

Answers:
    50

    ✓ Compilation Error or Runtime Error

    59

    60

Question 8
10 out of 10 points

What will be the output of the following program?

---Code---

```
class W

{

  static int c = 0;

  public static void main(String[] args)
  {

    W w1 = c();

    W w2 = c(w1);

    W w3 = c(w2);

    W w4 = c(w3);

  }

  private W()

  {

    System.out.println("c = " + c);

  }

  static W c()
```

```
    {
        return c++ <= 0 ? new W() : null;
    }

    static W c(W w)
    {
        return w.c++ == 1 ? new W() : null;
    }
}
```
---Code---

Selected Answer:	c = 1
✅	c = 2
Answers:	c = 1
✅	c = 2
	c = 1
	c = 2
	c = 3
	NullPointerException
	Compile Error

Question 9

10 out of 10 points

What will be the output of the program?

---Code---

```
class Output
{
    final static short i = 2;

    public static int j = 0;

    public static void main(String [] args)
    {
        for (int k = 0; k < 3; k++)
        {
            switch (k)
            {
                case i: System.out.print(" 0 ");

                case i-1: System.out.print(" 1 ");

                case i-2: System.out.print(" 2 ");
            }
        }
```

```
        }
    }
}
```
---Code---

Selected Answer:	✅ 2 1 2 0 1 2
Answers:	0 1 2 0 2 0
	0 1 2 2 2 0
	✅ 2 1 2 0 1 2
	2 1 0 1 0 0

Question 10

10 out of 10 points

Assume that you want to create an array containing ten Die objects. Which of the following code segment accomplishes this correctly?

A:

---Code---

```
Die[] dice = new Die[10];
for (int i = 0; i < dice.length; i++) {

    dice[i] = new Die();

}
```

---Code---

B:

---Code---

```
Die[] dice = new Die[10];
Die die = new Die();
for (int i = 0; i < dice.length; i++) {

    dice[i] = die;

}
```

---Code---

Selected Answer:	✅ A
Answers:	✅ A
	B
	Both
	Neither

Question 11

5 out of 5 points

If final int SIZE = 15 and int[] x = new int[SIZE], what would be the range of subscript values that could be used with x[]?

Selected Answer: ✓   0-14

Answers: 1-15

     1-14

✓   0-14

     0-15

Question 12

5 out of 5 points

Which of the following is an important difference between arrays and ArrayLists in Java?

Selected Answer: ✓

The size of an array cannot change. ArrayLists can grow or shrink as needed.

Answers: ArrayLists cannot be passed as arguments.

✓

The size of an array cannot change. ArrayLists can grow or shrink as needed.

The enhanced for loop only works with arrays, it can't be used with an ArrayList.

There is no difference. ArrayList is just another name for an array.

Question 13

5 out of 5 points

What will be printed by the following code snippet, assuming that letters is an initially empty?

---Code---

letters.add("A");

letters.add("B");

letters.add("C");

letters.add(1, "D");

System.out.println(letters.toString());

---Code---

Selected Answer: ✓   [A, D, B, C]

Answers: ✓   [A, D, B, C]

     [A, B, C, D]

     [A, B, D, C]

     4

← OK