



Software Engineering Lab

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Started on Wednesday, 27 January 2021, 3:30 PM

State Finished

Completed on Wednesday, 27 January 2021, 3:48 PM

Time taken 18 mins 27 secs

Grade 50.00 out of 50.00 (100%)

Question 1

Correct

Mark 10.00 out of
10.00

Flag question

What is the output of the following program:

```
public class Zoo {  
    public static void main(String[] Args) {  
        Animal a1,a2;  
        a1=new Animal();  
        a2=new Dog();  
  
        a1.makeSound();  
        System.out.print(a1.call);  
        a2.makeSound();  
        System.out.print(a2.call);  
    }  
}  
  
class Animal {  
    public String call = "Animal Sound, ";  
    void makeSound() {  
        System.out.print("Animal Sound, ");  
    }  
}  
  
class Dog extends Animal {  
    public Dog() {  
    }  
  
    public Dog(String s) {  
        call=s;  
    }  
  
    void makeSound() {  
        System.out.print("Bark, ");  
    }  
}
```

Select one:

- ☐ a. None of the above
- ☒ b. Animal Sound, Animal Sound, Bark, Animal Sound, ✓
- ☐ c. Animal Sound, Animal Sound, Bark, Bark,
- ☐ d. Compilation Error

Your answer is correct.

The correct answer is: Animal Sound, Animal Sound, Bark, Animal Sound,

Question 2

Correct

Mark 10.00 out of 10.00

Flag question

What is the output of the following program:

```
public class Hello {  
    String s = "hello";  
  
    public static void main(String[] args) {  
        System.out.println(s);  
    }  
}
```

Select one:

- ☐ a. Prints the string "hello"
- ☐ b. Prints a blank string or garbage string.
- ☒ c. Compilation error ✓
- ☐ d. None of the above

Your answer is correct.

The correct answer is: Compilation error

Question 3

Correct

Mark 10.00 out of 10.00

Flag question

Write the output of the given program:

```
public class Calculation {  
    public static void main(String[] args) {  
        System.out.print(new C(40).a);  
    }  
}  
  
class A {  
    public double a,d;  
    public void abc() {  
        if(d>13) d = d + a/2;  
        else d = a/2;  
    }  
}  
  
class B extends A {  
    public void abc() {  
        d = d + a/4;  
        a = a - d;  
        if(d>10) super.abc();  
        else d = d - a/4;  
    }  
}  
  
class C extends B {  
    public C(double x) {  
        d=0;  
        a = x;  
        if(a>10) super.abc();  
        if(d<a) a = a - d;  
    }  
}
```

Answer: 27.5



The correct answer is: 27.5

Question 4

Correct

Mark 10.00 out of 10.00

Flag question

What is the output of the following program:

```
public class Cumsum {  
    public static void main(String[] args) {  
        Dataset d1 = new Dataset(new int[]{1,2,3,4,5});  
        Dataset d2 = new Dataset(d1);  
        d2.cumsum();  
  
        d1.print();  
        d2.print();  
    }  
}  
  
class Dataset {  
    int[] l;  
    int ndata;  
    public Dataset(int[] a) {  
        l = a;  
        ndata=5;  
    }  
    public Dataset(Dataset d) {  
        ndata = d.ndata;  
        l = new int[5];  
        for(int i=0;i<ndata;i++) l[i]=d.l[i];  
    }  
    public void cumsum() {  
        for(int i=1;i<ndata;i++) l[i] = l[i]+l[i-1];  
    }  
    public void print() {  
        System.out.print("( ");  
        for(int i=0;i<ndata;i++) System.out.print(l[i]+", ");  
        System.out.print(") ");  
    }  
}
```

Select one:

- ☐ a. None of the above
- ☒ b. (1, 2, 3, 4, 5,) (1, 3, 6, 10, 15,)
- ☐ c. (1, 3, 6, 10, 15,) (1, 3, 6, 10, 15,)
- ☐ d. Runtime error

Your answer is correct.


The correct answer is: (1, 2, 3, 4, 5,) (1, 3, 6, 10, 15,)

Fill in the blank statement so that the program outputs unique odd numbers from the array "inputs".

```
import java.util.*;
```

Question 5

Complete

Mark 10.00 out of
10.00 Flag question

```
public class UniqueOdd {  
  
    int[] inputs;  
  
    int num;  
  
    HashSet<Integer> s;  
  
    public UniqueOdd(int n) {  
        this.num=n;  
        this.s = new HashSet<Integer>();  
        this.inputs = new int[n];  
        Random r = new Random();  
        for(int i=0; i<n; i++) inputs[i]=r.nextInt(10);  
    }  
  
    void generateUniqueOdd() {  
        for(int i=0; i<num; i++) {  
            _____[BLANK]_____  
        }  
    }  
  
    public static void main(String[] args) {  
        UniqueOdd u = new UniqueOdd(20);  
        u.generateUniqueOdd();  
        Iterator<Integer> a = u.s.iterator();  
        while(a.hasNext()) System.out.print(a.next()+" " );  
    }  
  
}  
  
if(inputs[i]%2){  
    s.add(inputs[i]);  
}
```

Comment:

Finish review

QUIZ NAVIGATION

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Finish review

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