

FIFTH TEST - QUESTION 66/77:

Given the following class declarations:

- public abstract class Animal
- public interface Hunter
- public class Cat extends Animal implements Hunter
- public class Tiger extends Cat

Which answer fails to compile?

- A) `ArrayList<Animal> myList = new ArrayList<>();
myList.add(new Tiger());`
- B) `ArrayList<Hunter> myList = new ArrayList<>();
myList.add(new Cat());`
- C) `ArrayList<Hunter> myList = new ArrayList<>();
myList.add(new Tiger());`
- D) `ArrayList<Tiger> myList = new ArrayList<>();
myList.add(new Cat());`
- E) `ArrayList<Animal> myList = new ArrayList<>();
myList.add(new Cat());`

A

Option A

B

Option B

C

Option C

D

Option D

E

Option E

Antwort: D

Which statement is true about Java byte code?



A

It can run on any platform.

B

It can run on any platform only if it was compiled for that platform.

C

It can run on any platform that has the Java Runtime Environment.

D

It can run on any platform that has a Java compiler.

E

It can run on any platform only if that platform has both the Java Runtime Environment
and a Java

compiler.

Antwort: A

Given:

```
public class MarkList {  
    int num;  
    public static void graceMarks(MarkList obj4) {  
        obj4.num += 10;  
    }  
    public static void main(String[] args) {  
        MarkList obj1 = new MarkList();  
        MarkList obj2 = obj1;  
        MarkList obj3 = null;  
        obj2.num = 60;  
        graceMarks(obj2);  
    }  
}
```

^

v

□

A

^

v

1

□

B

^

v

2

→

□

C

^

v

3

□

D

^

v

4

How many MarkList instances are created in memory at runtime?

CORRECT ANSWERS: D

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 69/77:

Given:

```
public class Triangle {  
    static double area;  
    int b = 2, h = 3;  
    public static void main(String[] args) {  
        double p, b, h;          //line n1  
        if (area == 0) {  
            b = 3;  
            h = 4;  
            p = 0.5;  
        }  
        area = p * b * h;      //line n2  
        System.out.println("Area is " + area);  
    }  
}
```

What is the result?



A

Area is 6.0

B

Area is 3.0

C

Compilation fails at line n1

D

Compilation fails at line n2.

Antwort: A, B und F

Given the code fragment:

```
public class Test {  
    public static void main(String[] args) {  
        //line n1  
        switch (x) {  
            case 1:  
                System.out.println("One");  
                break;  
            case 2:  
                System.out.println("Two");  
                break;  
        }  
    }  
}
```

Which three code fragments can be independently inserted at line n1 to enable the code to print one?



A

Byte x = 1;

B

short x = 1;

C

String x = "1";

D

Long x = 1;

E

Double x = 1;

F

Integer x = new Integer ("1");

FIFTH TEST - QUESTION 71/77:

Antwort: A

Given:

```
public class App {  
    public static void main(String[] args) {  
        Boolean[] bool = new Boolean[2];  
  
        bool[0] = new Boolean(Boolean.parseBoolean("true"));  
        bool[1] = new Boolean(null);  
  
        System.out.println(bool[0] + " " + bool[1]);  
    }  
}
```

What is the result?



A

True false

B

True null

C

Compilation fails

D

A NullPointerException is thrown at runtime

Antwort: B

Given the following code for the classes MyException and Test:

```
public class MyException extends RuntimeException {}

public class Test {
    public static void main(String[] args) {
        try {
            method1();
        }
        catch (MyException ne) {
            System.out.print("A");
        }
    }
    public static void method1() { // line n1
        try {
            throw Math.random() > 0.5 ? new MyException() : new RuntimeException();
        }
        catch (RuntimeException re) {
            System.out.print("B");
        }
    }
}
```

What is the result?

A

B

C

D

E

Either A or B

AB

CD

A compile time error occurs at line n1

FIFTH TEST - QUESTION 73/77:

Antwort: C

Given:

```

public class App {
    String myStr = "7007";
    public void doStuff(String str) {
        int myNum = 0;
        try {
            String myStr = str;
            myNum = Integer.parseInt(myStr);
        } catch (NumberFormatException ne) {
            System.err.println("Error");
        }
        System.out.println(
            "myStr: " + myStr + ", myNum: " + myNum);
    }
    public static void main(String[] args) {
        App obj = new App();
        obj.doStuff("9009");
    }
}

```

 A

myStr: 9009, myNum: 9009

 B

myStr: 7007, myNum: 7007

 C

myStr: 7007, myNum: 9009

 D

Compilation fails

What is the result?

Antwort: B und D

Which two are benefits of polymorphism?



A

Faster code at runtime

B

More efficient code at runtime

C

More dynamic code at runtime

D

More flexible and reusable code

E

Code that is protected from extension by other classes

Antwort: A

Given the code fragment:

```
int nums1[] = new int[3];
int nums2[] = {1, 2, 3, 4, 5};
nums1 = nums2;
for (int x : nums1){
    System.out.print(x + ":");
}
```

What is the result?

 A

1:2:3:4:5:

 B

1:2:3:

 C

Compilation fails.

 D

An ArrayOutOfBoundsException is thrown at runtime.

FIFTH TEST - QUESTION 76/77:

Antwort: C



Given:

```
public class Product {  
    int id;  
    String name;  
    public Product(int id, String name) {  
        this.id = id;  
        this.name = name;  
    }  
}
```

And given the code fragment:

```
4. Product p1 = new Product(101, "Pen");  
5. Product p2 = new Product(101, "Pen");  
6. Product p3 = p1;  
7. boolean ans1 = p1 == p2;  
8. boolean ans2 = p1.name.equals(p2.name);  
9. System.out.print(ans1 + ":" + ans2);
```

A

true:true

B

true:false

C

false:true

D

false:false

What is the result?

CORRECT ANSWERS: C, E

EXPLANATION:

Explanation:



FIFTH TEST - QUESTION 77/77: Select Multiple Answers

Given the following classes:

```
public class Employee {  
    public int salary;  
}  
  
public class Manager extends Employee {  
    public int budget;  
}  
  
public class Director extends Manager {  
    public int stockOptions;  
}
```

And given the following main method:

```
public static void main(String[] args) {  
    Employee employee = new Employee();  
    Manager manager = new Manager();  
    Director director = new Director();  
    //line n1  
}
```

Which two options fail to compile when placed at line n1 of the main method?

A

employee.salary = 50_000;

B

director.salary = 80_000;

C

employee.budget = 200_000;

D

manager.budget = 1_000_000;

E

manager.stockOption = 500;

F

director.stockOptions = 1_000;

CORRECT ANSWERS: C, E

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 77/77: Select Multiple Answers

Given the following classes:

```
public class Employee {  
    public int salary;  
}  
  
public class Manager extends Employee {  
    public int budget;  
}  
  
public class Director extends Manager {  
    public int stockOptions;  
}
```

And given the following main method:

```
public static void main(String[] args) {  
    Employee employee = new Employee();  
    Manager manager = new Manager();  
    Director director = new Director();  
    //line n1  
}
```

Which two options fail to compile when placed at line n1 of the main method?

A

employee.salary = 50_000;

B

director.salary = 80_000;

C

employee.budget = 200_000;

D

manager.budget = 1_000_000;

E

manager.stockOption = 500;

F

director.stockOptions = 1_000;

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 1/77:

Given:

```
class Product {
    double price;
}

public class Test {
    public void updatePrice(Product product, double price) {
        price = price * 2;
        product.price = product.price + price;
    }
    public static void main(String[] args) {
        Product prt = new Product();
        prt.price = 200;
        double newPrice = 100;

        Test t = new Test();
        t.updatePrice(prt, newPrice);
        System.out.println(prt.price + " : " + newPrice);
    }
}
```

What is the result?

A

200.0 : 100.0

B

400.0 : 200.0

C

400.0 : 100.0

D

Compilation fails.

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 2/77:

Given the code fragment:

```
if (aVar++ < 10) {  
    System.out.println(aVar + " Hello World!");  
} else {  
    System.out.println(aVar + " Hello Universe!");  
}
```

What is the result if the integer aVar is 9?

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✓

A

10 Hello World!

B

Hello Universe!

C

Hello World!

D

Compilation fails.

CORRECT ANSWERS: D

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 3/77:

Given the code fragment:

```
public static void main(String[] args) {  
    String date = LocalDate  
        .parse("2014-05-04")  
        .format(DateTimeFormatter.ISO_DATE_TIME);  
    System.out.println(date);  
}
```

What is the result?



A

May 04, 2014T00:00:00.000

B

2014-05-04T00:00: 00.000

C

5/4/14T00:00:00.000

D

An exception is thrown at runtime.

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 4/77:

Given the code fragment:

```
public static void main(String[] args) {  
    Short s1 = 200;  
    Integer s2 = 400;  
    Long s3 = (long) s1 + s2;           //line n1  
    String s4 = (String) (s3 * s2);    //line n2  
    System.out.println("Sum is " + s4);  
}
```

What is the result?

A

Sum is 600

B

Compilation fails at line n1.

C

Compilation fails at line n2.

D

A ClassCastException is thrown at line n1.

E

A ClassCastException is thrown at line n2.

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

Using the private modifier is the main way that an object encapsulates itself and hide data from the outside world.

Reference: http://www.tutorialspoint.com/java/java_access_modifiers.htm

FIFTH TEST - QUESTION 5/77:

What is the name of the Java concept that uses access modifiers to protect variables and hide them within a class?

A

B

Inheritance

C

Abstraction

D

Instantiation

E

Polymorphism

CORRECT ANSWERS: C, D

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 6/77: Select Multiple Answers

Given the code fragment:

```
abstract class Planet {  
    protected void revolve() { //line n1  
    }  
  
    abstract void rotate(); //line n2  
}  
  
class Earth extends Planet {  
    void revolve() { //line n3  
    }  
  
    protected void rotate() { //line n4  
    }  
}
```

Which two modifications, made independently, enable the code to compile?

A

Make the method at line n1 public.

B

Make the method at line n2 public.

C

Make the method at line n3 public.

D

Make the method at line n3 protected.

E

Make the method at line n4 public.

CORRECT ANSWERS: E

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 7/77:

Given:

```
class Vehicle {  
    String type = "4W";  
    int maxSpeed = 100;  
  
    Vehicle(String type, int maxSpeed) {  
        this.type = type;  
        this.maxSpeed = maxSpeed;  
    }  
  
    class Car extends Vehicle {  
        String trans;  
  
        Car(String trans) {          //line n1  
            this.trans = trans;  
        }  
  
        Car(String type, int maxSpeed, String trans) {  
            super(type, maxSpeed);  
            this(trans);           //line n2  
        }  
    }  
}
```

And given the code fragment:

```
7. Car c1 = new Car("Auto");  
8. Car c2 = new Car("4W", 150, "Manual");  
9. System.out.println(c1.type + " " + c1.maxSpeed + " " + c1.trans);  
10. System.out.println(c2.type + " " + c2.maxSpeed + " " + c2.trans);
```

What is the result?



A

4W 100 Auto

4W 150 Manual

B

Null 0 Auto

4W 150 Manual

C

Compilation fails only at line n1

D

Compilation fails only at line n2

E

Compilation fails at both line n1 and line n2

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 8/77: Select Multiple Answers

Given the code fragment:

```

1. class X {
2.     public void printFileContent() {
3.         /* code goes here */
4.         throw new IOException();
5.     }
6. }
7. public class Test {
8.     public static void main(String[] args) {
9.         X xobj = new X();
10.        xobj.printFileContent();
11.    }
12. }
```

Which two modifications should you make so that the code compiles successfully?

- A) Replace line 8 with `public static void main(String[] args) throws Exception {`
- B) Replace line 10 with:


```

try {
    xobj.printFileContent();
}
catch(Exception e) { }
catch(IOException e) { }
```
- C) Replace line 2 with `public void printFileContent() throws IOException {`
- D) Replace line 4 with `throw IOException("Exception raised");`
- E) At line 11, insert `throw new IOException();`

 A

Option A

 B

Option B

 C

Option C

 D

Option D

 E

Option E



CORRECT ANSWERS: A, C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 9/77: Select Multiple Answers

Given the following two classes:

```
public class Customer {  
    ElectricAccount acct = new ElectricAccount();  
  
    public void useElectricity(double kWh){  
        acct.addKWh(kWh);  
    }  
  
    public class ElectricAccount {  
        private double kWh;  
        private double rate = 0.07;  
        private double bill;  
  
        //line n1  
    }  
}
```



A

Option A

B

Option B

C

Option C

D

Option D

How should you write methods in the ElectricAccount class at line n1 so that the member variable bill is always equal to the value of the member variable kWh multiplied by the member variable rate?

Any amount of electricity used by a customer (represented by an instance of the customer class) must contribute to the customer's bill (represented by the member variable bill) through the method useElectricity method. An instance of the customer class should never be able to tamper with or decrease the value of the member variable bill.

- C A) public void addKWh(double kWh) {
 this.kWh += kWh;
 this.bill = this.kWh*this.rate;
}
- C B) public void addKWh(double kWh) {
 if (kWh > 0){
 this.kWh += kWh;
 this.bill = this.kWh * this.rate;
 }
}
- C C) private void addKWh(double kWh) {
 if (kWh > 0) {
 this.kWh += kWh;
 this.bill = this.kWh*this.rate;
 }
}
- C D) public void addKWh(double kWh) {
 if(kWh > 0) {
 this.kWh += kWh;
 setBill(this.kWh);
 }
}
public void setBill(double kWh) {
 bill = kWh*rate;
}

CORRECT ANSWERS: B

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 10/77:

Given the code fragment:

```
public static void main(String[] args) {  
    StringBuilder sb = new StringBuilder(S);  
    String s = "";  
  
    if (sb.equals(s)) {  
        System.out.println("Match 1");  
    } else if (sb.toString().equals(s.toString())) {  
        System.out.println("Match 2");  
    } else {  
        System.out.println("No Match");  
    }  
}
```



A

B

C

No Match

D

A NullPointerException is thrown at runtime.

What is the result?

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 11/77:

Given:

```
interface Readable {
    public void readBook();
    public void setBookMark();
}

abstract class Book implements Readable { // line n1
    public void readBook() { }
    // line n2
}

class EBook extends Book {           // line n3
    public void readBook() { }
    // line n4
}
```

Which option enables the code to compile?

- A) Replace the code fragment at line n1 with:
class Book implements Readable {
- B) At line n2 insert:
public abstract void setBookMark();
- C) Replace the code fragment at line n3 with:
abstract class EBook extends Book {
- D) At line n4 insert:
public void setBookMark() { }

^
e^

A

Option A

B

Option B

C

Option C

D

Option D

CORRECT ANSWERS: E

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 12/77:

Given:

```
public static void main(String[] args) {  
    String ta = "A ";  
    ta = ta.concat("B ");  
    String tb = "C ";  
    ta = ta.concat(tb);  
    ta.replace('C', 'D');  
    ta = ta.concat(tb);  
    System.out.println(ta);  
}
```

What is the result?



A

B

C

D

E

ABDC

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 13/77:

```
Given:  
  
class CD {  
    int r;  
    CD(int r){  
        this.r=r;  
    }  
}  
  
class DVD extends CD {  
    int c;  
    DVD(int r, int c) {  
        // line n1  
    }  
}
```

And given the code fragment:

```
DVD dvd = new DVD(10,20);
```

Which code fragment should you use at line n1 to instantiate the dvd object successfully?

- A) super.r = r;
 this.c = c;
- B) super(r);
 this(c);
- C) super(r);
 this.c = c;
- D) this.c = r;
 super(c);



A

Option A

B

Option B

C

Option C

D

Option D

CORRECT ANSWERS: B

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 14/77:

Given the code fragment:

```
int a[] = {1, 2, 3, 4, 5};  
for(XXX) {  
    System.out.print(a[e]);  
}
```

Which option can replace XXX to enable the code to print 135?

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A

```
int e = 0; e <= 4; e++
```

B

```
int e = 0; e < 5; e += 2
```

C

```
int e = 1; e <= 5; e += 1
```

D

```
int e = 1; e < 5; e += 2
```

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 15/77:

Which statement best describes encapsulation?

A

Encapsulation ensures that classes can be designed so that only certain fields and methods of an object are accessible from other objects.

B

Encapsulation ensures that classes can be designed so that their methods are inheritable.

C

Encapsulation ensures that classes can be designed with some fields and methods declared as abstract.

D

Encapsulation ensures that classes can be designed so that if a method has an argument MyType x, any subclass of MyType can be passed to that method.

CORRECT ANSWERS: E

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 16/77:

Given the code fragment from three files:

SalesMan.java:

```
package sales;  
public class SalesMan { }
```

Product.java:

```
package sales.products;  
public class Product { }
```

Market.java:

```
1. package market;  
2. // insert code here  
3. public class USMarket {  
4.     SalesMan sm;  
5.     Product p;  
6. }
```

Which code fragment, when inserted at line 2, enables the code to compile?

- A) import sales.*;
- B) import java.sales.products.*;
- C) import sales;
 import sales.products;
- D) import sales.*;
 import products.*;
- E) import sales.*;
 import sales.products.*;



A

Option A

B

Option B

C

Option C

D

Option D

E

Option E

CORRECT ANSWERS: A, C, D

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 17/77: Select Multiple Answers



Given the following class:

```
public class CheckingAccount {  
    public int amount;  
    public CheckingAccount(int amount){  
        this.amount = amount;  
    }  
    public int getAmount(){  
        return amount;  
    }  
    public void changeAmount(int x){  
        amount += x;  
    }  
}
```

And given the following main method, located in another class:

```
public static void main(String[] args) {  
    CheckingAccount acct = new CheckingAccount((int)(Math.random()*1000));  
    //line n1  
    System.out.println(acct.getAmount());  
}
```

Which three lines, when inserted independently at line n1, cause the program to print a 0 balance?

A

this.amount = 0;

B

amount = 0;

C

acct(0);

D

acct.amount = 0;

E

acct.getAmount() = 0;

F

acct.changeAmount(0);

G

acct.changeAmount(-acct.amount);

H

acct.changeAmount(-acct.getAmount());

CORRECT ANSWERS: D

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 18/77:



Given the code fragment:

```
String shirts[][] = new String[2][2];
shirts[0][0] = "red";
shirts[0][1] = "blue";
shirts[1][0] = "small";
shirts[1][1] = "medium";
```

Which code fragment prints red: blue: small: medium?

- A)

```
for (int index = 1; index < 2; index++) {
    for (int idx = 1; idx < 2; idx++) {
        System.out.print(shirts[index][idx] + ":");
    }
}
```
- B)

```
for (int index = 0; index < 2; ++index) {
    for (int idx = 0; idx < index; ++idx) {
        System.out.print(shirts[index][idx] + ":");
    }
}
```
- C)

```
for (String c : colors) {
    for (String s : sizes) {
        System.out.println(s + ":");
    }
}
```
- D)

```
for (int index = 0; index < 2;) {
    for (int idx = 0; idx < 2;) {
        System.out.print(shirts[index][idx] + ":");
        idx++;
    }
    index++;
}
```

A

B

C

D

D

CORRECT ANSWERS: D

EXPLANATION:

Explanation:



FIFTH TEST - QUESTION 19/77:

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v

Given the code fragment:

```
public class Test {  
    void readCard(int cardNo) throws Exception {  
        System.out.println("Reading Card");  
    }  
  
    void checkCard(int cardNo) throws RuntimeException { // line n1  
        System.out.println("Checking Card");  
    }  
  
    public static void main(String[] args) {  
        Test ex = new Test();  
        int cardNo = 12344;  
        ex.checkCard(cardNo);           //line n2  
        ex.readCard(cardNo);          //line n3  
    }  
}
```

What is the result?

A

Reading Card

Checking Card

B

Compilation fails only at line n1.

C

Compilation fails only at line n2.

D

Compilation fails only at line n3.

E

Compilation fails at both line n2 and line n3.

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 20/77:

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v

A

Replace line 6 with System.out.print(-x);

B

At line 7, insert x--;

C

Replace line 6 with -x; and, at line 7, insert system.out.print(x);

D

Replace line 12 With return (x > 0) ? false: true;

```
3. public static void main(String[] args) {  
4.     int x = 5;  
5.     while (isAvailable(x)) {  
6.         System.out.print(x);  
7.     }  
8. }  
10.  
11. public static boolean isAvailable(int x) {  
12.     return x-- > 0 ? true : false;  
13. }
```

Which modification enables the code to print 54321?

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 21/77:

Given the code fragment:

```
4. public static void main(String[] args) {  
5.     boolean opt = true;  
6.     switch (opt) {  
7.         case true:  
8.             System.out.print("True");  
9.             break;  
10.        default:  
11.            System.out.print("****");  
12.    }  
13.    System.out.println("Done");  
14. }
```

Which modification enables the code fragment to print TrueDone?

A

Replace line 5 With String opt = "true";

B

Replace line 7 with case "true":

C

At line 9, remove the break statement.

D

Remove the default section.

CORRECT ANSWERS: D

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 22/77:

Given the following main method:

```
public static void main(String[] args) {  
    int num = 5;  
    do {  
        System.out.print(num-- + " ");  
    } while(num == 0);  
}
```

What is the result?

A
5 4 3 2 1 0

B

5 4 3 2 1

C

4 2 1

D

E

Nothing is printed

CORRECT ANSWERS: E

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 23/77:

Given the code fragment:

```
int x = 100;
int a = x++;
int b = ++x;
int c = x++;
int d = (a < b) ? (a < c) ? a: (b < c )? b: c;
System.out.println(d);
```

What is the result?

^

A

100

B

101

C

102

D

103

E

Compilation fails

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 24/77:

Given:

```
public class Test {  
    public static void main(String[] args) {  
        String[][] chs = new String[2][];  
        chs[0] = new String[2];  
        chs[1] = new String[5];  
        int i = 97;  
  
        for (int a = 0; a < chs.length; a++) {  
            for (int b = 0; b < chs.length; b++) {  
                chs[a][b] = "" + i;  
                i++;  
            }  
        }  
  
        for (String[] ca : chs) {  
            for (String c : ca) {  
                System.out.print(c + " ");  
            }  
            System.out.println();  
        }  
    }  
}
```

What is the result?

^
v

A

97 98

99 100 null null null

B

97 98

99 100 101 102 103

C

Compilation fails.

D

A NullPointerException is thrown at runtime.

E

An ArrayIndexOutOfBoundsException is thrown at runtime.

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 25/77: Select Multiple Answers

Given the code fragment:

```
public class Employee {
    String name;
    boolean contract;
    double salary;
    Employee() {
        // line n1
    }
    public String toString(){
        return name + ":" + contract + ":" + salary;
    }
    public static void main(String[] args) {
        Employee e = new Employee();
        // line n2
        System.out.print(e);
    }
}
```

Which two modifications, when made independently, enable the code to print joe:true:100.0?

- A) Replace line n2 with:
e.name = "Joe";
e.contract = true;
e.salary = 100;
- B) Replace line n2 with:
this.name = "Joe";
this.contract = true;
this.salary = 100;
- C) Replace line n1 with:
this.name = new String("Joe");
this.contract = new Boolean(true);
this.salary = new Double(100);
- D) Replace line n1 with:
name = "Joe";
contract = TRUE;
salary = 100.0f;
- E) Replace line n1 with:
this("Joe", true, 100);

 A

Option A

 B

Option B

 C

Option C

 D

Option D

 E

Option E

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 26/77:

Given the code fragment:

```
public static void main(String[] args) {  
    List<String> names = new ArrayList<>();  
    names.add("Robb");  
    names.add("Bran");  
    names.add("Rick");  
    names.add("Bran");  
  
    if (names.remove("Bran")) {  
        names.remove("Jon");  
    }  
    System.out.println(names);  
}
```

What is the result?

- A [Robb, Rick, Bran] B [Robb, Rick] C [Robb, Bran, Rick, Bran] D An exception is thrown at runtime.

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 27/77:

Given:

```
class A {
    public A(){
        System.out.print("A ");
    }
}

class B extends A{
    public B(){          //line n1
        System.out.print("B ");
    }
}

class C extends B{
    public C(){          //line n2
        System.out.print("C ");
    }
    public static void main(String[] args) {
        C c = new C();
    }
}
```

What is the result?

^
v
?

A

CBA

B

C

c

A B C

D

Compilation fails at line n1 and line n2

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 28/77:

```
class X {  
    static int i;  
    int j;  
    public static void main(String[] args) {  
        X x1 = new X();  
        X x2 = new X();  
        x1.i = 3;  
        x1.j = 4;  
        x2.i = 5;  
        x2.j = 6;  
        System.out.println(  
            x1.i + " " +  
            x1.j + " " +  
            x2.i + " " +  
            x2.j);  
    }  
}
```

What is the result?

^
e^

A

3 4 5 6

B

3 4 3 6

C

5 4 5 6

D

3 6 4 6

CORRECT ANSWERS: B

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 29/77:

Given the code fragment:

```
1. public class Test {  
2.     public static void main(String[] args) {  
3.         /* insert code here */  
4.         array[0]=10;  
5.         array[1]=20;  
6.         System.out.print(array[0]+":"+array[1]);  
7.     }  
8. }
```

Which code fragment, when inserted at line 3, enables the code to print 10:20?

A

int[] array n= new int[2];

B

int[] array;

array = int[2];

C

int array = new int[2];

D

int array [2] ;

CORRECT ANSWERS: A, C, D

EXPLANATION:

Explanation:

Reference: <http://javajee.com/introduction-to-exceptions-in-java>

FIFTH TEST - QUESTION 31/77: *Select Multiple Answers*

Which three are advantages of the Java exception mechanism?

A

Improves the program structure because the error handling code is separated from the normal program function

B

Provides a set of standard exceptions that covers all the possible errors

C

Improves the program structure because the programmer can choose where to handle exceptions

D

Improves the program structure because exceptions must be handled in the method in which they occurred

E

Allows the creation of new exceptions that are tailored to the particular program being created

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 32/77:

Given the code from the Greeting Java file:

```
public class Greeting {  
    public static void main(String[] args) {  
        System.out.println("Hello " + args[0]);  
    }  
}
```

Which set of commands prints Hello Duke in the console?

- A) javac Greeting
java Greeting Duke
- B) javac Greeting.java Duke
java Greeting
- C) javac Greeting.java
java Greeting Duke
- D) javac Greeting.java
java Greeting.class Duke

A

Option A

B

Option B

C

Option C

D

Option D

CORRECT ANSWERS: B

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 33/77:

```
class Alpha {  
    int ns;  
    static int s;  
    Alpha(int ns) {  
        if (s < ns) {  
            s = ns;  
            this.ns = ns;  
        }  
    }  
    void doPrint() {  
        System.out.println("ns = " + ns + " s = " + s);  
    }  
}
```

And,

```
public class TestA {  
    public static void main(String[] args) {  
        Alpha ref1 = new Alpha(50);  
        Alpha ref2 = new Alpha(125);  
        Alpha ref3 = new Alpha(100);  
        ref1.doPrint();  
        ref2.doPrint();  
        ref3.doPrint();  
    }  
}
```

What is the result?

A) ns = 50 s = 125
ns = 125 s = 125
ns = 100 s = 125

B) ns = 50 s = 125
ns = 125 s = 125
ns = 0 s = 125

C) ns = 50 s = 50
ns = 125 s = 125
ns = 100 s = 100

D) ns = 50 s = 50
ns = 125 s = 125
ns = 0 s = 125

- A
- B
- C
- D

Option A

Option B

Option C

Option D

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 34/77:

Given the code fragment:

```
public static void main(String[] args) {
    int ii = 0;
    int jj = 7;
    for (ii = 0; ii < jj - 1; ii = ii + 2) {
        System.out.print(ii + " ");
    }
}
```

What is the result?

^
v

A

2 4

B

0 2 4 6

C

0 2 4

D

Compilation fails

CORRECT ANSWERS: D

EXPLANATION:

Explanation:



FIFTH TEST - QUESTION 35/77:



Given the code fragment:

```
LocalDate date1 = LocalDate.now();
LocalDate date2 = LocalDate.of(2014, 6, 20);
LocalDate date3 = LocalDate.parse("2014-06-20", DateTimeFormatter.ISO_DATE);
System.out.println("date1 = " + date1);
System.out.println("date2 = " + date2);
System.out.println("date3 = " + date3);
```

Assume that the system date is June 20, 2014. What is the result?

- A) date1 = 2014-06-20
date2 = 2014-06-20
date3 = 2014-06-20
- B) date1 = 06/20/2014
date2 = 2014-06-20
date3 = Jun 20, 2014
- C) Compilation fails.
- D) A DateParseException is thrown at runtime.

A

Option A

B

Option B

C

Option C

D

Option D

CORRECT ANSWERS: B

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 36/77:

Given the code fragment:

```
7.  stringBuider sb1 = new StringBuider("Duke");
8.  String str1 = sb1.toSring();
9.  // insert code here
10.  System.out.print(str1 == str2);
```

Which code fragment, when inserted at line 9, enables the code to print true?

A

String str2 = str1;

B

String str2 = new String (str1);

C

String str2 = sb1.toSring();

D

String str2 = "Duke";

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 37/77:



A

10 : 10

B

5 : 5

C

5 : 10

D

Compilation fails

Given the code fragment:

```
public class Test {  
    static int count = 0;  
    int i = 0;  
  
    public void changeCount() {  
        while (i < 5) {  
            i++;  
            count++;  
        }  
    }  
  
    public static void main(String[] args) {  
        Test check1 = new Test();  
        Test check2 = new Test();  
        check1.changeCount();  
        check2.changeCount();  
        System.out.print(check1.count + " : " + check2.count);  
    }  
}
```

What is the result?

CORRECT ANSWERS: A, C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 38/77: Select Multiple Answers

^
v

A

Option A

B

Option B

C

Option C

D

Option D

E

Option E

Given the code fragment:

```
public static void main(String[] args) {  
    double discount = 0;  
    int qty = Integer.parseInt(args[0]);  
    //line n1:  
}
```

And given the requirements:

- If the value of the qty variable is greater than or equal to 90, discount = 0.5
- If the value of the qty variable is between 80 and 90, discount = 0.2

Which two code fragments can be independently placed at line n1 to meet the requirements?

- A) if (qty >= 90) { discount = 0.5; }
if (qty > 80 && qty < 90) { discount = 0.2; }
- B) discount = (qty >= 90) ? 0.5 : 0;
discount = (qty > 80) ? 0.2 : 0;
- C) discount = (qty >= 90) ? 0.5 : (qty > 80)? 0.2 : 0;
- D) if (qty > 80 && qty < 90) {
 discount = 0.2;
} else {
 discount = 0;
}
if (qty >= 90) {
 discount = 0.5;
} else {
 discount = 0;
}
- E) discount = (qty > 80) ? 0.2 : (qty >= 90) ? 0.5 : 0;

CORRECT ANSWERS: B

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 39/77:

Given:

```
public class Test {  
    public static void main(String[] args) {  
        if (args[0].equals("Hello") ? false : true) {  
            System.out.println("Success");  
        } else {  
            System.out.println("Failure");  
        }  
    }  
}
```

And given the commands:

javac Test.java

Java Test Hello

What is the result?

^
v

A

Success

B

Failure

C

Compilation fails.

D

An exception is thrown at runtime

CORRECT ANSWERS: B, C, F

EXPLANATION:

Explanation: <http://www.javaworld.com/article/2075459/java-platform/java-101--object-oriented-language-basics--part-5--object-and-its-methods.html> (see the sub title, Object is root of all classes not all other objects)

FIFTH TEST - QUESTION 40/77: Select Multiple Answers

Which three statements describe the object-oriented features of the Java language?

A

Objects cannot be reused.

B

A subclass can inherit from a superclass.

C

Objects can share behaviors with other objects.

D

A package must contain more than one class.

E

Object is the root class of all other objects.

F

A main method must be declared in every class.

CORRECT ANSWERS: E

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 41/77:

^
✓

Given the following code:

```
public static void main(String[] args){  
    String[] planets = {"Mercury", "Venus", "Earth", "Mars"};  
  
    System.out.println(planets.length);  
    System.out.println(planets[1].length());  
}
```

What is the output?

A

4

4

B

3

5

C

4

7

D

5

4

E

4

5

F

4

CORRECT ANSWERS: B, C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 42/77: Select Multiple Answers

You are developing a banking module. You have developed a class named ccMask that has a maskcc method.

Given the code fragment:

```
class CCmask {
    public static String maskCC(String creditCard) {
        String x = "XXXX-XXXX-XXXX-";
        //line n1
    }

    public static void main(String[] args) {
        System.out.println(maskCC("1234-5678-9101-1121"));
    }
}
```

You must ensure that the maskcc method returns a string that hides all digits of the credit card number

except the four last digits (and the hyphens that separate each group of four digits).

Which two code fragments should you use at line n1, independently, to achieve this requirement?

A

Option A

B

Option B

C

Option C

D

Option D

- A)

```
StringBuilder sb = new StringBuilder(creditCard);
sb.substring(15, 19);
return x + sb;
```
- B)

```
return x + creditCard.substring(15, 19);
```
- C)

```
StringBuilder sb = new StringBuilder(x);
sb.append(creditCard, 15, 19);
return sb.toString();
```
- D)

```
StringBuilder sb = new StringBuilder(creditCard);
StringBuilder s = sb.insert(0, x);
return s.toString();
```

CORRECT ANSWERS: B

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 43/77:

Given:

```
package p1;
public class Acc {
    int p;
    private int q;
    protected int r;
    public int s;
}
```

Test.java:

```
package p2;
import p1.Acc;
public class Test extends Acc {
    public static void main(String[] args) {
        Acc obj = new Test();
    }
}
```

Which statement is true?

A

Both p and s are accessible by obj.

B

Only s is accessible by obj.

C

Both r and s are accessible by obj.

D

p, r, and s are accessible by obj.

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 44/77:

Given:

Base.java:

```
class Base {  
    public void test(){  
        System.out.println("Base ");  
    }  
}
```

DerivedA.java:

```
class DerivedA extends Base {  
    public void test(){  
        System.out.println("DerivedA ");  
    }  
}
```

DerivedB.java:

```
class DerivedB extends DerivedA {  
    public void test(){  
        System.out.println("DerivedB ");  
    }  
    public static void main(String[] args) {  
        Base b1 = new DerivedB();  
        Base b2 = new DerivedA();  
        Base b3 = new DerivedB();  
        b1 = (Base) b3;  
        Base b4 = (DerivedA) b3;  
        b1.test();  
        b4.test();  
    }  
}
```

What is the result?



A

Base

DerivedA

B

Base

DerivedB

C

DerivedB

DerivedB

D

DerivedB

DerivedA

E

A classcast Exception is thrown at runtime.

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 45/77:

Given the code fragment:

```
public static void main(String[] args) {  
    ArrayList myList = new ArrayList();  
    String[] myArray;  
    try {  
        while (true) {  
            myList.add("My String");  
        }  
    catch (RuntimeException re) {  
        System.out.println("Caught a RuntimeException");  
    }  
    catch (Exception e) {  
        System.out.println("Caught an Exception");  
    }  
    System.out.println("Ready to use");  
}
```

What is the result?

A

Execution terminates in the first catch statement, and caught a RuntimeException is printed to the console.

B

Execution terminates in the second catch statement, and caught an Exception is printed to the console.

C

A runtime error is thrown in the thread "main".

D

Execution completes normally, and Ready to use is printed to the console.

E

The code fails to compile because a throws keyword is required.

CORRECT ANSWERS: D

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 46/77:



Given:

```
System.out.println("5 + 2 = " + 3 + 4);  
System.out.println("5 + 2 = " + (3 + 4));
```

What is the result?

A) $5 + 2 = 34$
 $5 + 2 = 34$

B) $5 + 2 + 3 + 4$
 $5 + 2 = 7$

C) $7 = 7$
 $7 + 7$

D) $5 + 2 = 34$
 $5 + 2 = 7$

A

Option A

B

Option B

C

Option C

D

Option D

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 47/77:

Given the code fragments:

Person.java:

```
public class Person {  
    String name;  
    int age;  
  
    public Person(String n, int a) {  
        name = n;  
        age = a;  
    }  
  
    public String getName() {  
        return name;  
    }  
  
    public int getAge() {  
        return age;  
    }  
}
```

Test.java:

```
public static void checkAge(List<Person> list, Predicate<Person> predicate) {  
    for (Person p : list) {  
        if (predicate.test(p)) {  
            System.out.println(p.name + " ");  
        }  
    }  
}  
  
public static void main(String[] args) {  
    List<Person> iList = Arrays.asList(new Person("Hank", 45),  
                                         new Person("Charlie", 40),  
                                         new Person("Smith", 38));  
    //line n1  
}
```

^
e^

A

checkAge(iList, () -> p.getAge() > 40);

B

checkAge(iList, Person p -> p.getAge() > 40);

C

checkAge(iList, p -> p.getAge() > 40);

D

checkAge(iList, (Person p) -> { p.getAge() > 40; });

Which code fragment, when inserted at line n1, enables the code to print Hank?

CORRECT ANSWERS: C

EXPLANATION:

Explanation:



FIFTH TEST - QUESTION 48/77:



A

A B C

B

A B C D E

C

A B D E

D

Compilation fails.

Given the code fragment:

```
public static void main(String[] args) {
    String[][] arr = {"A", "B", "C"}, {"D", "E"});
    for (int i = 0; i < arr.length; i++) {
        for (int j = 0; j < arr[i].length; j++) {
            System.out.print(arr[i][j] + " ");
            if (arr[i][j].equals("B")) {
                break;
            }
        }
        continue;
    }
}
```

What is the result?

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 49/77:

Given the code fragment:

```
public static void main(String[] args) {  
    String str = " ";  
    str.trim();  
    System.out.println(str.equals("") + " " + str.isEmpty());  
}
```

What is the result?

A

true true

B

true false

C

false false

D

false true

CORRECT ANSWERS: B

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 50/77:

Given the code fragment:

```
public class App {  
    public static void main(String[] args) {  
        String str1 = "Java";  
        String str2 = new String("java");  
        //line n1  
        {  
            System.out.println("Equal");  
        } else {  
            System.out.println("Not Equal");  
        }  
    }  
}
```

^
P
w

A

Option A

B

Option B

C

Option C

D

Option D

Which code fragment, when inserted at line n1, enables the App class to print Equal?

- A) string str3 = str2;
if (str1 == str3)
- B) if (str1.equalsIgnoreCase(str2))
- C) string str3 = str2;
if (str1.equals(str3))
- D) if (str1.toLowerCase() == str2.toLowerCase())

CORRECT ANSWERS: B

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 51/77:

Given:

```
public class SumTest {  
    public static void doSum(Integer x, Integer y) {  
        System.out.println("Integer sum is " + (x + y));  
    }  
  
    public static void doSum(double x, double y) {  
        System.out.println("double sum is " + (x + y));  
    }  
  
    public static void doSum(float x, float y) {  
        System.out.println("float sum is " + (x + y));  
    }  
  
    public static void doSum(int x, int y) {  
        System.out.println("int sum is " + (x + y));  
    }  
  
    public static void main(String[] args) {  
        doSum(10, 20);  
        doSum(10.0, 20.0);  
    }  
}
```

What is the result?

- A) int sum is 30
float sum is 30.0
- B) int sum is 30
double sum is 30
- C) Integer sum is 30
double sum is 30.0
- D) Integer sum is 30
float sum is 30.0

^

v

A

Option A

B

Option B

C

Option C

D

Option D

CORRECT ANSWERS: D

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 52/77:

Given the code fragment:

```
String[] strs = new String[2];
int idx = 0;
for (String s : strs) {
    strs[idx].concat(" element " + idx);
    idx++;
}
for (idx = 0; idx < strs.length; idx++) {
    System.out.println(strs[idx]);
}
```

What is the result?



A

Element 0

B

Null element 0

Null element 1

C

Null

Null

D

A NullPointerException is thrown at runtime.



EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 53/77:

Given:

```
class Vehicle {
    int x;
    Vehicle(){
        this(10); // line n1
    }
    Vehicle(int x) {
        this.x = x;
    }
}

class Car extends Vehicle {
    int y;
    Car(){
        super();
        this(20); // line n2
    }
    Car(int y) {
        this.y = y;
    }
    public String toString() {
        return super.x + ":" + this.y;
    }
}
```

And given the code fragment:

And given the code fragment:

```
Vehicle y = new Car();
System.out.println(y);
```

What is the result?

 A

10:20

 B

0:20

 C

Compilation fails at line n1

 D

Compilation fails at line n2

CORRECT ANSWERS: C

EXPLANATION:

Explanation:



FIFTH TEST - QUESTION 54/77:



Given the definitions of the MyString class and the Test class:

MyString.java:

```
package pl;
class MyString {
    String msg;
    MyString(String msg) {
        this.msg = msg;
    }
}
```

Test.java:

```
package pl;
public class Test {
    public static void main(String[] args) {
        System.out.println("Hello " + new StringBuilder("Java SE 8"));
        System.out.println("Hello " + new MyString("Java SE 8"));
    }
}
```

What is the result?

- A) Hello Java SE 8
Hello Java SE 8
- B) Hello java.lang.StringBuilder@<<hashcode1>>
Hello pl.MyString@<<hashcode2>>
- C) Hello Java SE 8
Hello pl.MyString@<<hashcode>>
- D) Compilation fails at the Test class.

A

Option A

B

Option B

C

Option C

D

Option D

CORRECT ANSWERS: A, D, F

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 55/77: Select Multiple Answers

Given the code fragment:

```
3. public static void main(String[] args) {  
4.     int iVar = 100;  
5.     float fVar = 100.100f;  
6.     double dVar = 123;  
7.     iVar = fVar;  
8.     fVar = iVar;  
9.     dVar = fVar;  
10.    fVar = dVar;  
11.    dVar = iVar;  
12.    iVar = dVar;  
13. }
```

Which three lines fail to compile?

^
v

A

Line 7

B

Line 8

C

Line 9

D

Line 10

E

Line 11

F

Line 12

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 56/77:

Given:

MainTest.java:

```
public class MainTest {  
    public static void main(int[] args) {  
        System.out.println("int main " + args[0]);  
    }  
    public static void main(Object[] args) {  
        System.out.println("Object main " + args[0]);  
    }  
    public static void main(String[] args) {  
        System.out.println("String main " + args[0]);  
    }  
}
```

and commands:

```
javac MainTest.java  
java MainTest 1 2 3
```

What is the result?

A

int main 1

B

Object main 1

C

String main 1

D

Compilation fails

E

An exception is thrown at runtime

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 57/77:



Given the code fragment:

```
int num[][] = new int[1][3];
for (int i = 0; i < num.length; i++) {
    for (int j = 0; j < num[i].length; j++) {
        num[i][j] = 10;
    }
}
```

Which option represents the state of the num array after successful completion of the outer loop?

A) num[0][0]=10
num[0][1]=10
num[0][2]=10

B) num[0][0]=10
num[1][0]=10
num[2][0]=10

C) num[0][0]=10
num[0][1]=0
num[0][2]=0

D) num[0][0]=10
num[0][1]=10
num[0][2]=10
num[0][3]=10
num[1][0]=0
num[1][1]=0
num[1][2]=0
num[1][3]=0

A

Option A

B

Option B

C

Option C

D

Option D

CORRECT ANSWERS: B

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 58/77:

Given the code fragment:

```
public class Person {  
    String name;  
    int age = 25;  
  
    public Person(String name) {  
        this(); //line n1  
        setName(name);  
    }  
  
    public Person(String name, int age) {  
        Person(name); //line n2  
        setAge(age);  
    }  
  
    //setter and getter methods go here  
  
    public String show() {  
        return name + " " + age + " " + number;  
    }  
    public static void main(String[] args) {  
        Person p1 = new Person("Jesse");  
        Person p2 = new Person("Walter", 52);  
        System.out.println(p1.show());  
        System.out.println(p2.show());  
    }  
}
```

What is the result?

^

A

Jesse 25

B

Walter 52

C

Compilation fails only at line n1

D

Compilation fails only at line n2

Compilation fails at both line n1 and line n2

CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 59/77:

Given the following code for a Planet object:

```
public class Planet {  
    public String name;  
    public int moons;  
  
    public Planet(String name, int moons) {  
        this.name = name;  
        this.moons = moons;  
    }  
}
```

And the following main method:

```
public static void main(String[] args){  
    Planet[] planets = {  
        new Planet("Mercury", 0),  
        new Planet("Venus", 0),  
        new Planet("Earth", 1),  
        new Planet("Mars", 2)  
    };  
  
    System.out.println(planets);  
    System.out.println(planets[2]);  
    System.out.println(planets[2].moons);  
}
```

What is the output?

- A) planets
Earth
1
- B) {LPlanets.Planet;@15db9742
Earth
1

A

Option A

B

Option B

C

Option C

D

Option D

E

Option E

What is the output?

- A) planets
Earth
1
- B) [LPlanets.Planet;@15db9742
Earth
1
- C) [LPlanets.Planet;@15db9742
Planets.Planet@6d06d69c
1
- D) [LPlanets.Planet;@15db9742
Planets.Planet@6d06d69c
[LPlanets.Moon;@7852e922
- E) [LPlanets.Planet;@15db9742
Venus
0

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 60/77:

You are asked to develop a program for a shopping application, and you are given the following information:

- The application must contain the classes Toy, EduToy, and ConsToy. The Toy class is the superclass of the other two classes.
- The int calculatePrice (Toy t) method calculates the price of a toy.
- The void printToy (Toy t) method prints the details of a toy.

Which definition of the Toy class adds a valid layer of abstraction to the class hierarchy?

- A) public abstract class Toy{
 public abstract int calculatePrice(Toy t);
 public void printToy(Toy t) { /* code goes here */ }
}
- B) public abstract class Toy {
 public int calculatePrice(Toy t) ;
 public void printToy(Toy t) ;
}
- C) public abstract class Toy {
 public int calculatePrice(Toy t);
 public final void printToy(Toy t){ /* code goes here */ }
}
- D) public abstract class Toy {
 public abstract int calculatePrice(Toy t) { /* code goes here */ }
 public abstract void printToy(Toy t) { /* code goes here */ }
}



A

Option A

B

Option B

C

Option C

D

Option D



CORRECT ANSWERS: C

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 61/77:

Given the following code:

```
int[] intArr = {15, 30, 45, 60, 75};  
intArr[2] = intArr[4];  
intArr[4] = 90;
```

What are the values of each element in intArr after this code has executed?

A

15, 60, 45, 90, 75

B

15, 90, 45, 90, 75

C

15, 30, 75, 60, 90

D

15, 30, 90, 60, 90

E

15, 4, 45, 60, 90

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 62/77: Select Multiple Answers

Given the following array:

```
int[] intArr = {8, 16, 32, 64, 128};
```

Which two code fragments, independently, print each element in this array?

- A)

```
for (int i : intArr) {
    System.out.print(intArr[i] + " ");
}
```
- B)

```
for (int i : intArr) {
    System.out.print(i + " ");
}
```
- C)

```
for (int i=0 : intArr) {
    System.out.print(intArr[i] + " ");
    i++;
}
```
- D)

```
for (int i=0; i < intArr.length; i++) {
    System.out.print(i + " ");
}
```
- E)

```
for (int i=0; i < intArr.length; i++) {
    System.out.print(intArr[i] + " ");
}
```
- F)

```
for (int i; i < intArr.length; i++) {
    System.out.print(intArr[i] + " ");
}
```

 A

Option A

 B

Option B

 C

Option C

 D

Option D

 E

Option E

 F

Option F

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 63/77:

Given the content of three files:

A.java:

```
public class A {  
    public void a() {}  
    int a;  
}
```

B.java:

```
public class B {  
    private int doStuff() {  
        private int x = 100;  
        return x++;  
    }  
}
```

C.java:

```
import java.io.*;  
package p1;  
class A {  
    public void main(String fileName) throws IOException {}  
}
```

Which statement is true?



A

Only the A.java file compiles successfully.

B

Only the B.java file compiles successfully.

C

Only the C.java file compiles successfully.

D

The A.java and B.java files compile successfully.

E

The B.java and C.java files compile successfully.

F

The A.java and C.java files compile successfully.

CORRECT ANSWERS: D, E

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 64/77: Select Multiple Answers

Given the code fragment:

```
int[] array = {1, 2, 3, 4, 5};
```

And given the requirements:

1. Process all the elements of the array in the order of entry.
2. Process all the elements of the array in the reverse order of entry.
3. Process alternating elements of the array in the order of entry.

Which two statements are true?

A

Requirements 1, 2, and 3 can be implemented by using the enhanced for loop.

B

Requirements 1, 2, and 3 can be implemented by using the standard for loop.

C

Requirements 2 and 3 CANNOT be implemented by using the standard for loop.

D

Requirement 1 can be implemented by using the enhanced for loop.

E

Requirement 3 CANNOT be implemented by using either the enhanced for loop or the standard for loop.

CORRECT ANSWERS: A

EXPLANATION:

Explanation:

FIFTH TEST - QUESTION 65/77:

Given:

```
public class TestScope {  
    public static void main(String[] args) {  
        int var1 = 200;  
        System.out.print(doCalc(var1));  
        System.out.print(" "+var1);  
    }  
    static int doCalc(int var1){  
        var1 = var1 * 2;  
        return var1;  
    }  
}
```

What is the result?



A

400 200

B

200 200

C

400 400

D

Compilation fails.