

1z0-808.exam.87q

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1z0-808

Java SE 8 Programmer I

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Exam A

QUESTION 1

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? (Choose two.)

- ☐ 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();`



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- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

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
}

```

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 use Electricity method. An instance of the customer class should never be able to tamper with or decrease the value of the member variable bill.

- ☐ A)

```
public void addKWh(double kWh) {  
    this.kWh += kWh;  
    this.bill = this.kWh*this.rate;  
}
```
- ☐ B)

```
public void addKWh(double kWh) {  
    if (kWh > 0){  
        this.kWh += kWh;  
        this.bill = this.kWh * this.rate;  
    }  
}
```
- ☐ C)

```
private void addKWh(double kWh) {  
    if (kWh > 0) {  
        this.kWh += kWh;  
        this.bill = this.kWh*this.rate;  
    }  
}
```
- ☐ D)

```
public void addKWh(double kWh) {  
    if(kWh > 0) {  
        this.kWh += kWh;  
        setBill(this.kWh);  
    }  
}  
public void setBill(double kWh) {  
    bill = kWh*rate;  
}
```

- A. Option A
B. Option B
C. Option C
D. Option D

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

Given the code fragment:

```
public static void main(String[] args) {  
    StringBuilder sb = new StringBuilder(5);  
    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");  
    }  
}
```

What is the result?

- A. Match 1
- B. Match 2
- C. No Match
- D. A NullPointerException is thrown at runtime.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

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  
}
```

And given the code fragment:

```
Book book1 = new EBook ();  
Book1.readBook();
```

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() { }`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

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. A B C D
- B. A C D
- C. A B C C
- D. A B D
- E. A B D C

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

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 Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

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.*;`



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- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

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? (Choose three.)

- 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 Answer: ACD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

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. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

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 Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

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 Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

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[a].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?

- 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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

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`? (Choose two.)

- ☐ 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 Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

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 Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

Given:

```

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

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

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

```

What is the result?

- A. C B A
- B. C
- C. A B C
- D. Compilation fails at line n1 and line n2

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

Given:

```
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?

- A. 3 4 5 6
- B. 3 4 3 6
- C. 5 4 5 6
- D. 3 6 4 6

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

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 Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

Given:

```

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) $ns = 50 \quad s = 125$
 $ns = 125 \quad s = 125$
 $ns = 100 \quad s = 125$

☐ B) $ns = 50 \quad s = 125$
 $ns = 125 \quad s = 125$
 $ns = 0 \quad s = 125$

☐ C) $ns = 50 \quad s = 50$
 $ns = 125 \quad s = 125$
 $ns = 100 \quad s = 100$

☐ D) $ns = 50 \quad s = 50$
 $ns = 125 \quad s = 125$
 $ns = 0 \quad s = 125$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

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?

- A. 2 4
- B. 0 2 4 6
- C. 0 2 4
- D. Compilation fails

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

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.



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- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

Given the code fragment:

```
7.  StringBuilder sb1 = new StringBuilder("Duke");
8.  String str1 = sb1.toString();
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. toString ();
- D. String str2 = "Duke";

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

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?

- A. Success
- B. Failure
- C. Compilation fails.
- D. An exception is thrown at runtime

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

Which three statements describe the object-oriented features of the Java language? (Choose three.)

- 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 Answer: BCF

Section: (none)

Explanation

Explanation/Reference:

Reference: <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)

QUESTION 24

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
21

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

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? (Choose two.)

- ☐ 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();`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

Given:

Acc.java:

```
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 Answer: B

Section: (none)
Explanation

Explanation/Reference:

QUESTION 27
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 ClassCastException is thrown at runtime.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

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 Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

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`

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

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
Element 1
- B. Null element 0
Null element 1
- C. Null
Null
- D. A NullPointerException is thrown at runtime.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

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 Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

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

MyString.java:

```
package p1;
class MyString {
    String msg;
    MyString(String msg) {
        this.msg = msg;
    }
}
```

Test.java:

```
package p1;
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 Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

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?

- A. Line 7
- B. Line 8
- C. Line 9
- D. Line 10
- E. Line 11
- F. Line 12

Correct Answer: ADF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

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
Walter 52
- B. Compilation fails only at line n1
- C. Compilation fails only at line n2
- D. Compilation fails at both line n1 and line n2

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

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

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

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 */ }  
}
```



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- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

Given the following array:

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

Which two code fragments, independently, print each element in this array? (Choose two.)

- ☐ 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 Answer: BE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

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 Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

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? (Choose two.)

- 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 Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <http://www.math.uni-hamburg.de/doc/java/tutorial/getStarted/intro/definition.html>

Explanation:

Java bytecodes help make "write once, run anywhere" possible. You can compile your program into bytecodes on any platform that has a Java compiler. The bytecodes can then be run on any implementation of the Java VM. That means that as long as a computer has a Java VM, the same program written in the Java programming language can run on Windows 2000, a Solaris workstation, or on an iMac.

QUESTION 42

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);
    }
}
```

How many MarkList instances are created in memory at runtime?

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

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? (Choose three.)

- 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");

Correct Answer: ABF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

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");  
    }  
}
```

What is the result?

- A. myStr: 9009, myNum: 9009
- B. myStr: 7007, myNum: 7007
- C. myStr: 7007, myNum: 9009
- D. Compilation fails

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

Which two are benefits of polymorphism? (Choose two.)

- 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

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.cs.princeton.edu/courses/archive/fall98/cs441/mainus/node5.html>

QUESTION 48

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

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? (Choose two.)

- 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 Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

Which one of the following code examples uses valid Java syntax?

A.

```
public class Boat {  
  
    public static void main (String [] args) {  
        System.out.println ("I float.");  
    }  
}
```

B.

```
public class Cake {  
    public static void main (String [] ) {  
        System.out.println ("Chocolate");  
    }  
}
```

C.

```
public class Dog {  
    public void main (String [] args) {  
        System.out.println ("Squirrel.");  
    }  
}
```

D.

```
public class Bank {  
    public static void main (String () args) {  
        System.out.println ("Earn interest.");  
    }  
}
```

A. Option A

- B. Option B
- C. Option C
- D. Option D

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://docs.oracle.com/javase/tutorial/getStarted/application/>

QUESTION 51

Given:

```
class Caller {
    private void init () {
        System.out.println("Initialized");
    }

    private void start () {
        init();
        System.out.println("Started");
    }
}

public class TestCall {
    public static void main(String[] args) {
        Caller c = new Caller();
        c.start();
        c.init();
    }
}
```

What is the result?

- A. An exception is thrown at runtime.
- B. Initialized
Started
Initialized
- C. Initialized
Started
- D. Compilation fails.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

Given the code fragment:

```
public static void main(String[] args) {  
    try {  
        int num = 10;  
        int div = 0;  
        int ans = num / div;  
    } catch (ArithmeticException ae) {  
        ans = 0 // line n1  
    } catch (Exception e) {  
        System.out.println("Invalid calculation");  
    }  
    System.out.println("Answer = " + ans); // line n2  
}
```

What is the result?

- A. Answer = 0
- B. Invalid calculation
- C. Compilation fails only at line n1.
- D. Compilation fails only at line n2.
- E. Compilation fails only at line n1 and line2.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

Given:


```
public class MyField {  
    int x;  
    int y;  
    public void doStuff(int x, int y) {  
        this.x = x;  
        y = this.y;  
    }  
    public void display () {  
        System.out.print(x + " " + y + " : ");  
    }  
    public static void main(String[] args) {  
        MyField m1 = new MyField();  
        m1.x = 100;  
        m1.y = 200;  
        MyField m2 = new MyField();  
        m2.doStuff(m1.x, m1.y);  
        m1.display();  
        m2.display();  
    }  
}
```

What is the result?

- A. 100 0 : 100 200:
- B. 100 0 : 100 0 :
- C. 100 200 : 100 200 :
- D. 100 200 : 100 0 :

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

Given:

```
public class Vowel {  
    private char var;  
    public static void main(String[] args) {  
        char var1 = 'a';  
        char var2 = var1;  
        var2 = 'e';  
  
        Vowel obj1 = new Vowel ();  
        Vowel obj2 = obj1;  
        obj1.var = 'i';  
        obj2.var = 'o';  
  
        System.out.println(var1 + ", " + var2);  
        System.out.print(obj1.var + ", " + obj2.var);  
    }  
}
```



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A. a, e
i, o

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- B. a, e
o, o
- C. e, e
i, o
- D. e, e
o, o

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

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?

- A. Compilation fails.
- B. 10 Hello Universe!
- C. 10 Hello World!
- D. 9 Hello World!

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

Given:

```
public class MyClass {  
    public static void main(String[] args) {  
        String s = "Java Duke";  
        int len = s.trim().length();  
        System.out.print(len);  
    }  
}
```

What is the result?

- A. Compilation fails.
- B. 11
- C. 8
- D. 9
- E. 10

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

Given:

```
public class Test {  
    public static void main(String[] args) {  
        boolean a = new Boolean(Boolean.valueOf (args[0]));  
        boolean b = new Boolean(args[1]);  
        System.out.println(a + " " + b);  
    }  
}
```

And given the commands:

```
javac Test.java  
java Test TRUE null
```

What is the result?

- A. TRUE null
- B. true false
- C. false false
- D. true true
- E. A `ClassCastException` is thrown at runtime.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

Given the code fragment:

```

public static void main(String[] args) {
    int[][] arr = new int [2] [4];
    arr[0] = new int []{1, 3, 5, 7};
    arr[1] = new int []{1, 3};
    for (int[] a : arr) {
        for (int i : a) {
            System.out.print(i+ " ");
        }
        System.out.println();
    }
}

```

What is the result?

- A. Compilation fails.
- B. 1 3
1 3
- C. 1 3
followed by an `ArrayIndexOutOfBoundsException`
- D. 1 3
1 3 0 0
- E. 1 3 5 7
1 3

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Your Code ...

```
1 public class MyClass {
2     public static void main (String [] args) {
3         int [][] arr = new int [2] [4];
4         arr[0] = new int [] {1, 3, 5, 7};
5         arr[1] = new int [] {1, 3};
6         for (int [] a : arr) {
7             for (int i : a) {
8                 System.out.print(i+ " ");
9             }
10            System.out.println ();
11        }
12    }
13 }
14 }
```

External Libraries ...

CommandLine Arguments ...

Interactive mode : ☐ OFF

Version:

Stdin Inputs...

Result...

CPU Time: 0.13 sec(s), Memory: 30680 kilobyte(s)

compiled and executed in 0.705 sec(s)

```
1 3 5 7
1 3
```

QUESTION 59

Which statement will empty the contents of a StringBuilder variable named sb?

- A. sb. deleteAll ();
- B. sb. delete (0, sb. size ());
- C. sb. delete (0, sb. length ());
- D. sb. removeAll ();

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

Given:

```
String stuff = "TV";
String res = null;

if (stuff.equals ("TV")) {
    res = "Walter";
} else if (stuff.equals ("Movie) ) {
    res= "White";
} else {
    res= "No Result";
}
```

Which code fragment can replace the if block?

- A. `stuff.equals ("TV") ? res= "Walter" : stuff.equals ("Movie") ?
res = "White" : res = "No Result";`

- B. `res = stuff.equals ("TV") ? "Walter" else stuff.equals ("Movie")? "White" : "No Result";`
- C. `res = stuff.equals ("TV") ? stuff.equals ("Movie")? "Walter" : "White" : "No Result";`
- D. `res = stuff.equals ("TV")? "Walter" : stuff.equals ("Movie")? "White" : "No Result";`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

Given:

```
class Patient {  
    String name;  
    public Patient (String name) {  
        this.name = name;  
    }  
}
```

And the code fragment:

```

8. public class Test {
9.     public static void main (String [] args) {
10.         List ps = new ArrayList ();
11.         Patient p2 = new Patient ("Mike");
12.         ps.add(p2);
13.
14.         // insert code here
15.
16.         if (f >= 0) {
17.             System.out.print ("Mike Found");
18.         }
19.     }
20. }

```

Which code fragment, when inserted at line 14, enables the code to print Mike Found?

- A. `int f = ps.indexOf (p2);`
- B. `int f = ps.indexOf (Patient ("Mike"));`
- C. `int f = ps.indexOf (new Patient "Mike"));`
- D. `Patient p = new Patient ("Mike");`
`Int f = ps.indexOf (p)`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

Which statement is true about the switch statement?

- A. It must contain the default section.
- B. The break statement, at the end of each case block, is mandatory.
- C. Its case label literals can be changed at runtime.
- D. Its expression must evaluate to a single value.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Reference: <http://www.dummies.com/programming/java/switch-statements-in-java/>

QUESTION 63

Given:

```

class Animal {
    String type = "Canine";
    int maxSpeed = 60;

    Animal () {}

    Animal (String type, int maxSpeed) {
        this.type = type;
        this.maxSpeed = maxSpeed;
    }
}

class WildAnimal extends Animal {
    String bounds;

    WildAnimal (String bounds) {
        //line n1
    }

    WildAnimal (String type, int maxSpeed,String bounds) {
        //line n2
    }
}

```

And given the code fragment:

```
7. WildAnimal wolf = new WildAnimal ("Long");
8. WildAnimal tiger = new WildAnimal ("Feline", 80, "Short");
9. System.out.println (wolf.type + " " + wolf.maxSpeed + " " +
wolf.bounds);
10. Sytem.out.println (tiger.type + " " + tiger.maxSpeed + " " +
tiger.bounds);
```

Which two modifications enable the code to print the following output? (Choose two.)

```
Canine 60 Long
Feline 80 Short
```

- A. . Replace line n1 with:
 `super ();`
 `this.bounds = bounds;`
- B. Replace line n1 with:
 `this.bounds = bounds;`
 `super ();`
- C. Replace line n2 with:
 `super (type, maxSpeed);`
 `this (bounds);`
- D. Replace line n1 with:
 `this ("Canine", 60);`
 `this.bounds = bounds`
- E. Replace line n2 with:
 `super (type, maxSpeed);`
 `this.bounds = bounds;`

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 64

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 30.0`
- C. `integer sum is 30`
`double sum is 30.0`
- D. `integer sum is 30`
`float sum is 30.0`

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65

You are asked to create a method that accepts an array of integers and returns the highest value from that array.

Given the code fragment:

```

class Test {
    public static void main (String [] args) {
        int numbers [] = {12, 13, 42, 32, 15, 156, 23, 51, 12};
        int max = findMax (numbers);
    }
    /*line n1 */ {
        int max = 0;
        /* code goes here*/
        return max;
    }
}

```

Which method signature do you use at line n1?

- A. public int findMax (int [] numbers)
- B. static int[] findMax (int max)
- C. static int findMax (int [] numbers)
- D. final int findMax (int [])

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

Which three statements are true about the structure of a Java class? (Choose three.)

- A. A public class must have a main method.
- B. A class can have only one private constructor.
- C. A method can have the same name as a field.
- D. A class can have overloaded static methods.

- E. The methods are mandatory components of a class.
- F. The fields need not be initialized before use.

Correct Answer: ACE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 67

Given the code fragment:

```
Public static void main (String [] args) {  
    System.out.println ("Result A " + 0 + 1);  
    System.out.println ("Result B " + (1) + (2) );  
}
```

What is the result?

- A. Result A 1
Result B 3
- B. Result A 01
Result B 3
- C. Result A 01
Result B 12
- D. Result A 1
Result B 12

A. Option A

- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 68

Given:

```
public class App {  
    int count;  
    public static void displayMsg () {  
        count++; // line n1  
        System.out.println ("Welcome "+"Visit Count: "+count); // line n2  
    }  
    public static void main (String [] args) {  
        App.displayMsg (); // line n3  
        App.displayMsg (); // line n4  
    }  
}
```

What is the result?

- A. Compilation fails at line n3 and line n4.
- B. Compilation fails at line n1 and line n2.
- C. Welcome Visit Count:1
Welcome Visit Count: 1
- D. Welcome Visit Count:1

Welcome Visit Count: 2

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 69

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;
    }
    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. Compilation fails at both line n1 and line n2.

- B. Compilation fails only at line n2.
- C. Compilation fails only at line n1.
- D. Jesse 25
Walter 52

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 70

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?

- A. 5 : 5
- B. 10 : 10
- C. 5 : 10
- D. Compilation fails.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:
Reference:

Your Code ...

```
1 public class Test {  
2  
3     static int count = 0 ;  
4     int i = 0;  
5  
6     public void changecount () {  
7         while (i<5) {  
8             i++;  
9             count++;  
10        }  
11    }  
12    public static void main (String [ ] args) {  
13        Test check1 = new Test () ;  
14        Test check2 = new Test () ;  
15        check1.changecount () ;  
16        check2.changecount () ;  
17        System.out. print (check1.count + " : " + check2.count) ;  
18    }  
19 }  
20
```

External Libraries ... [Add External Library \(from Maven Repo\)](#)

cs1.keyboard

Input Arguments (args of Main Method)...

Interactive mode : ☐ OFF

Stdin Inputs...

Execute

Save

My Projects

Recent

Collaborate

Others ▾

Goto Another Language/DB ▾

Result...

compiled and executed in 1.357 second(s)

10 : 10

QUESTION 71

Given the code fragment:

```
public static void main (String [] args) {  
    ArrayList<Integer> points = new ArrayList<> ();  
    points.add (1);  
    points.add (2);  
    points.add (3);  
    points.add (4);  
    points.add (null);  
    points.remove (2);  
    points.remove (null);  
    System.out.println(points);  
}
```

What is the result?

- A. A NullPointerException is thrown at runtime.
- B. [1, 2, 4]
- C. [1, 2, 4, null]
- D. [1, 3, 4, null]
- E. [1, 3, 4]
- F. Compilation fails.

Correct Answer: F

Section: (none)

Explanation

Explanation/Reference:


Explanation:

Version - JDK 1.8.0_66

Your Code ...

```
1 public static void main (String [] args) {  
2     ArrayList<Integer> points = new ArrayList<> ();  
3     points.add (1) ;  
4     points.add (2) ;  
5     points.add (3) ;  
6     points.add (4) ;  
7     points.add (null) ;  
8     points.remove (null) ;  
9     System.out.println (points) ;  
10 }
```

External Libraries ...

 Add External Library (from Maven Repo)

cs1.keyboard

Input Arguments (args of Main Method)...

Interactive mode : ☐ OFF

Stdin Inputs...

Execute

Save

My Projects

Recent

Collaborate

Others ▾

Goto Another Language/DB ▾

Result...

compiled and executed in 0 second(s)

No "public class" found to execute

QUESTION 72

Which code fragment causes a compilation error?

- A. `float flt = 100F;`
- B. `float flt = (float) 1_11.00;`
- C. `float flt = 100;`
- D. `double y1 = 203.22;`
 `float flt = y1;`
- E. `int y2 = 100;`
 `float flt = (float) y2;`

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 73

Given:

```

public class Fieldinit {
    char c;
    boolean b;
    float f;
    void printAll() {
        System.out.println ("c = " + c);
        System.out.println ("b = " + b);
        System.out.println ("f = " + f);
    }
    public static void main (String [] args) {
        FieldInit f = new FieldInit ();
        f.printAll ();
    }
}

```

What is the result?

- A. c=
b = false
f = 0.0
- B. c= null
b = true
f = 0.0
- C. c=0
b = false
f = 0.0f

D. `c= null`
`b = false`
`f = 0.0F`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 74

Which three statements are true about exception handling? (Choose three.)

- A. Only unchecked exceptions can be rethrown.
- B. All subclasses of the RuntimeException class are recoverable.
- C. The parameter in a catch block is of Throwable type.
- D. All subclasses of the RuntimeException class must be caught or declared to be thrown.
- E. All subclasses of the Exception class except the RuntimeException class are checked exceptions.
- F. All subclasses of the Error class are checked exceptions and are recoverable.

Correct Answer: CEF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75

Given the code fragment:

```

public static void main (String [ ] args) {
    int [] stack = {10,20,30};
    int size = 3;
    int idx = 0;
    /*line n1 */
    System.out.print ("The Top element: " + stack [idx] );
}

```

Which code fragment, inserted at line n1, prints The Top element: 30?

- A. do {
 idx++;
} while (idx >= size);
- B. while (idx < size) {
 idx++;
}
- C. do {
 idx++;
} while (idx < size - 1);
- D. do {
 idx++;
} while (idx <= size);
- E. while (idx <= size - 1) {
 idx++;
}



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- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 76

Given the code fragment:

```
public static void main (String[ ] args) {  
    int data [] = {2010, 2013, 2014, 2015, 2014};  
    int key = 2014;  
    int count = 0;  
    for (int e: data) {  
        if (e! = key) {  
            continue;  
            count++;  
        }  
    }  
    System.out.print (count + "Found");  
}
```

What is the result?

- A. Compilation fails.
- B. 0 Found
- C. 1 Found
- D. 3 Found

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 77

Given the code fragment:

```
LocalDate Time dt= LocalDateTime.of (2014, 7, 31, 1, 1);  
dt.plusDays (30);  
dt. plusMonths (1);  
System.out.print (dt format (DateTimeFormatter. ISO_DATE) );
```

What is the result?

- A. An exception is thrown at runtime.
- B. 07-31-2014
- C. 2014-07-31
- D. 2014-09-30

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 78

Given:

```
public class Test {  
    public static final int MIN =1;  
    public static void main (String [] args) {  
        int x = args.length;  
        if (checkLimit (x)) {    //line n1  
            System.out.println ("Java SE");  
        } else {  
            System.out.println ("Java EE");  
        }  
    }  
    public static boolean checkLimit (int x) {  
        return (x >= MIN) ? true : false;  
    }  
}
```

And given the commands:

```
javac Test.java  
java Test
```

What is the result?

- A. Java SE
- B. Java EE
- C. Compilation fails at line n1.
- D. A NullPointerException is thrown at runtime.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 79

Given the code fragments:

```

Interface Exportable {
    Void export();
}

class Tool implements Exportable {
    protected void export () {          //line n1
        System.out.println("Tool::export");
    }
}

class ReportTool extends Tool implements Exportable {

    public void export() {                //line n2
        System.out.println("RTool::export");
    }

    public static void main(String[] args) {
        Tool aTool = new ReportTool();
        Tool bTool = new Tool();
        callExport(aTool);
        callExport(bTool);
    }

    public static void callExport (Exportable ex) {
        ex.export();
    }
}

```

What is the result?

- A. Compilation fails only at line n2.
- B. RTool::export
Tool::export
- C. Tool::export
Tool:export
- D. Compilation fails only at line n1.
- E. Compilation fails at both line n1 and line n2.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 80

Given:

```
package clothing;  
public class Shirt {  
    public static String getColor() {  
        return "Green";  
    }  
}
```

Given the code fragment:

```

package clothing.pants;
// line n1
public class Jeans {
    public void matchShirt(){
        //line n2
        if(color.equals("Green")) {
            System.out.print("Fit")
        }
    }
    public static void main (String[] args) {
        Jeans trouser = new Jeans();
        trouser.matchShirt();
    }
}

```

Which two sets of actions, independently, enable the code fragment to print `Fit`?

- A. At line n1 insert: `import clothing.Shirt;`
At line n2 insert: `String color = getColor();`
- B. At line n1 insert: `import clothing.*;`
At line n2 insert: `String color = Shirt.getColor();`
- C. At line n1 insert: `import static clothing.Shirt.getcolor;`
At line n2 insert: `String color = getColor();`
- D. At line n1 no changes required.
At line n2 insert: `String color = Shirt.getColor();`
- E. At line n1 insert: `import clothing;`
At line n2 insert: `String color = Shirt.getColor();`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 81

Given the code fragments:

```
class Student {  
    String name;  
    int age;  
}
```

And,

```
4. public class Test {  
5.     public static void main(String[] args) {  
6.         Student s1 = new Student();  
7.         Student s2 = new Student();  
8.         Student s3 = new Student();  
9.         s1 = s3;  
10.        s3 = s2;  
11.        s2 = null;  
12.    }  
13.}
```

Which statement is true?

- A. After line 11, three objects are eligible for garbage collection.
- B. After line 11, two objects are eligible for garbage collection.
- C. After line 11, one object is eligible for garbage collection.
- D. After line 11, none of the objects are eligible for garbage collection.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 82

Given the code fragment:

```
int wd = 0;
String days[] = {"sun", "mon", "wed", "sat"};
for (String s:days) {
    switch (s) {
        case "sat":
        case "sun":
            wd -= 1;
            break;
        case "mon":
            wd++;
        case "wed":
            wd += 2;
    }
}
System.out.println(wd);
```

What is the result?

- A. 3
- B. 4
- C. -1
- D. Compilation fails.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 83

Given the code fragment:

```
public static void main(String[] args) {  
    LocalDate date = LocalDate.of(2012, 01, 32);  
    date.plusDays(10);  
    System.out.println(date);  
}
```

What is the result?

- A. 2012-02-10
- B. 2012-02-11
- C. Compilation fails
- D. A DateTimeException is thrown at runtime.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 84

Given the code fragment:


```
13. List colors = new ArrayList();
14. colors.add("green");
15. colors.add("red");
16. colors.add("blue");
17. colors.add("yellow");
18. colors.remove(2);
19. colors.add(3, "cyan");
20. System.out.print(colors);
```

What is the result?

- A. (green, red, yellow, cyan)
- B. (green, blue, yellow, cyan)
- C. (green, red, cyan, yellow)
- D. An `IndexOutOfBoundsException` is thrown at runtime.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 85

Given the code fragment:

```
abstract class Toy {
    int price;
    // line n1
}
```

Which three code fragments are valid at line n1? (Choose three.)

- A.

```
public static void insertToy() {
    /* code goes here */
}
```

- B.

```
public abstract Toy getToy() {  
    return new Toy();  
}
```
- C.

```
public void printToy();
```
- D.

```
public int calculatePrice() {  
    return price;  
}
```
- E.

```
public abstract int computeDiscount();
```

Correct Answer: CDE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 86

Given the code fragment:

```
public static void main(String[] args) {  
    int array[] = {10, 20, 30, 40, 50};  
    int x = array.length;  
    /* line n1 */  
}
```

Which two code fragments can be independently inserted at line n1 to enable the code to print the elements of the array in reverse order? (Choose two.)

- A.

```
while (x > 0) {  
    x--;  
    System.out.print(array[x]);  
}
```

- B. do {
 x--;
 System.out.print(array[x]);
 } while (x >= 0);
- C. while (x >= 0) {
 System.out.print(array[x]);
 x--;
 }
- D. do {
 System.out.print(array[x]);
 --x;
 } while (x >= 0);
- E. while (x > 0) {
 System.out.print(array[--x]);
 }

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 87

Given:

```

class Test
    int a1;

    public static void doProduct(int a) {
        a = a * a;
    }

    public static void doString(StringBuilder s) {
        s.append(" " + s);
    }

    public static void main(String[] args) {
        Test item = new Test();
        item.a1 = 11;
        StringBuilder sb = new StringBuilder("Hello");
        Integer i = 10;
        doProduct(i);
        doString(sb);
        doProduct(item.a1);
        System.out.println(i + " " + sb + " " + item.a1);
    }
}

```

What is the result?

- A. 10 Hello Hello 11
- B. 10 Hello Hello 121
- C. 100 Hello 121
- D. 100 Hello Hello 121
- E. 10 Hello 11

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

