**OCJP 61 to 180**

**Question: 1)**

package com.lti.q1;

public class A {

private boolean checkValue (int val) {

return true;

}

}

public class B extends A {

public int modifyVal (int val) {

if (checkValue (val)) {

return val;

} else {

return 0;

}

}

public static void Main(String[] args) {

B b = new B();

System.*out*.println(b.modifyVal (10));

}

}

What is the result?   
 A. nothing   
 B. It fails to compile. -(correct answer)   
 C. 0   
 D. A java.lang.IllegalArgumentException is thrown.   
 E. 1

Question: 2

public interface API { //line 1   
 public void checkValue(Object value)   
 throws IllegalArgumentException; //line 2    
 public boolean isValueANumber (Object val) {   
 if (val instanceof Number) {   
 return true;   
 }else {   
 try {   
 Double.parseDouble (val.toString());   
 return true;   
 } catch (NumberFormatException ex) {   
 return false;   
 }   
 }    
 }   
 }

Which two changes need to be made to make this class compile? (Choose two.)   
 A. Change Line 1 to an abstract class:public abstract class API { -(correct answer)   
 B. Change Line 2 access modifier to protected:protected void checkValue(Object value)throws IllegalArgumentException;   
 C. Change Line 1 to a class:public class API {    
 D. Change Line 1 to extend java.lang.AutoCloseable:public interface API extends AutoCloseable {   
 E. Change Line 2 to an abstract method:public abstract void checkValue(Object value)throws IllegalArgumentException; -(correct answer)

Q3.Which two modules include APIs in the Java SE Specification? (Choose two.)   
 A. java.logging -(correct answer)   
 B. java.desktop -(correct answer)   
 C. javafx   
 D. jdk.httpserver    
 E. jdk.jartoo

Q4.

package com.lti.q4;

public class Test{

private int num = 1;

private int div = 0;

public void divide () {

try {

num = num / div;

System.*out*.print ("Exception");

}

catch (ArithmeticException ae) {num = 100; }

catch (Exception e) { num = 200; }

finally { num = 300; }

System.*out*.print (num);

}

public static void main(String args[])

{

Test test = new Test();

test.divide ();

}

}

What is the output?

A. 300

B. Exception

C. 200

D. 100

Q5)Which two statements are true about the modular JDK? (Choose two.)    
 A. The foundational APIs of the Java SE Platform are found in the java.base module.    
 B. An application must be structured as modules in order to run on the modular JDK.    
 C. It is possible but undesirable to configure modules’ exports from the command line.    
 D. APIs are deprecated more aggressively because the JDK has been modularized.

Q6.

package com.lti.q6;

import java.util.Arrays;

public class Test1 {

public static void main(String[] args) {

int[] secA = { 2, 4, 6, 8, 10 };

int[] secB = { 2, 4, 8, 6, 10 };

int res1 = Arrays.*mismatch* (secA, secB);

int res2 = Arrays.*compare* (secA, secB);

System.*out*.print (res1 + ": " + res2);

}

}

What is the result?

A. -1 : 2

B. 2 : -1s

C. 2 : 3

D. 3 : 0

Q7.

package com.lti.ques1;

import java.io.\*;

public class Tester {

public static void main(String[] args) {

try {

*doA*();

*doB*();

} catch (IOException e) {

System.*out*.println("c");

return;

} finally {

System.*out*.println("d");

}

System.*out*.println("f");

}

private static void doA() {

System.*out*.println("a");

if (false) {

throw new IndexOutOfBoundsException();

}

}

private static void doB() throws FileNotFoundException {

System.*out*.println("b");

if (true) {

throw new FileNotFoundException();

}

}

}

What is the result?   
 A. The compilation fails.   
 B. abdf   
 C. abd   
 D. adf   
 E. abcd 

Q8. Which set of commands is necessary to create and run a custom runtime image from Java source files?

A. java, jdeps   
 B. javac, jlink   
 C. jar, jlink   
 D. javac, jar

Q9.

public class Tester {

public static void main(String[] args) {

StringBuilder sb = new StringBuilder(5);

sb.append("HOWDY");

sb.insert(0, ' ');

sb.replace(3, 5, "LL");

sb.insert(6, "COW");

sb.delete(2, 7);

System.*out*.println(sb.length());

} What is the result?   
 A. 4    
 B. 3    
 C. An exception is thrown at runtime.    
 D. 5

Q10.

package Dumps1\_question10;

import java.util.function.BiFunction;

public class Pair<T> {

final BiFunction<T, T, Boolean> validator;

T left = null;

T right = null;

private Pair() {

validator = null;

}

Pair(BiFunction<T, T, Boolean> v, T x, T y) {

validator = v;

set(x,y);

}

void set(T x, T y)

{

if(!validator.apply(x, y)) throw new IllegalArgumentException();

setLeft(x);

setRight(y);

}

void setLeft(T x) {

left = x;

}

void setRight(T y) {

right = y;

}

final boolean isValid() {

return validator.apply(left , right);

}

}

It is required that if p instanceof Pair then p.isValid() returns true. Which is the smallest set of visibility changes to insure this requirement is met?

Options :

A) setLeft and set Right must be protected

B) left and right must be private

C) isValid must be public

D) left,right,setLeft,and setRight must be private

Q11. package Dumps1\_question11;

public class Test {

public static void main(String[] args) {

var i = 10;

var j = 5;

i += (j\*5 + j) / i - 2;

System.*out*.println(i);

}

}

Q12.package Dumps1\_question12;

public class Tester {

private int x;

private static int *y*;

public static void main(String[] args) {

Tester t1 = new Tester();

t1.x = 2;

Tester.*y* = 3;

Tester t2 = new Tester();

t2.x = 4;

t2.*y* = 5;

System.*out*.print(t1.x+","+t1.*y*);

System.*out*.print(t2.x+","+Tester.*y*);

System.*out*.print(t2.x+","+t1.*y*);

}

}

Options :

A) 2,34,34,5

B) 2,34,54,5

C) 2,54,54,5

D) 2,34,54,3

Q13

public interface EulerInterface {

double getEulerValue();   
 }

public class EulerLamda {

public static void main(String[] args) {   
 EulerInterface myEulerInterface;   
 myEulerInterface = () -> "2.71828";   
 System.out.println("Value of Euler = " + myEulerInterface.getEulerValue());   
 }   
 }

What is the result?    
 A. It throws a runtime exception.   
 B. Value of Euler = 2.71828    
 C. The code does not compile.   
 D. Value of Euler = “2.71828”

Q14

package com.lti.lamda;

public class Myclass {

public static void main(String[] arg) {   
 System.out.println(arg[1] + "--" + arg[3] + "--" + arg[0]);   
 }   
 }

executed using this command: java Myclass My Car is red

What is the output of this class?    
 A. Car--red--My   
 B. My--Car--is   
 C. My--is--java   
 D. java--Myclass--My   
 E. Myclass--Car—red

Q15.

package b;

public class Person {   
    
 protected Person() { //line 1   
    
 }   
 }

and

package a;

import b.Person;

public class Main { //line 2

public static void main(String[] args) {   
 Person person = new Person(); // line 3   
 }   
 }

Which two allow a.Main to allocate a new Person? (Choose two.)

A. In Line 1, change the access modifier to privateprivate Person() {

B. In Line 1, change the access modifier to publicpublic Person() {

C. In Line 2, add extends Person to the Main classpublic class Main extends Person {and change Line   
 3 to create a new Main objectPerson person = new Main();

D. In Line 2, change the access modifier to protectedprotected class Main {

E. In Line 1, remove the access modifierPerson() {

Q16.

{   
 Iterator iter=List.of(1,2,3).iterator();   
 while(iter.hasNext()){   
 foo(iter.next());   
 }   
 Iterator iter2 = List.of(1, 2, 3).iterator();   
 while(iter.hasNext()){   
 bar(iter2.next());   
 }   
 }   
 for(Iterator iter = List.of(1, 2, 3).iterator();iter.hasNext();)   
 {   
 foo(iter.next());   
 }   
 for(Iterator iter2 = List.of(1, 2, 3).iterator();iter.hasNext();)   
 {   
 bar(iter2.next());   
 }   
  

Which loop incurs a compile time error?   
 A. the loop starting line 11   
 B. the loop starting line 7   
 C. the loop starting line 14   
 D. the loop starting line 3

Q17. Which two statements are true about Java modules? (Choose two.)   
 A. Modular jars loaded from --module-path are automatic modules.   
 B. Any named module can directly access all classes in an automatic module.   
 C. Classes found in –classpath are part of an unnamed module.   
 D. Modular jars loaded from –classpath are automatic modules.   
 E. If a package is defined in both the named module and the unnamed module, then the package in    
 the unnamed module is ignored.

Q18.

public class DNASynth{   
 int aCount;   
 int tCount;   
 int cCount;   
 int gCount;   
 DNASynth(int a, int tCount, int c, int g) {   
 //line1   
 }   
 int setCCount(int c) {   
 return c;   
 }   
 void setGCount (int gCount) {   
 this.gCount = gCount;   
 }   
 }   
  

A. setCCount(c) = cCount;   
 B. tCount = tCount;   
 C. setGCount(g);   
 D. cCount = setCCount(c);   
 E. aCount = a;

Question:19

class Mycar {

}

and

javac C:\workspace4\Mycar.java

What is the expected result of javac?

A. javac fails to compile the class and prints the error message, C:\workspace4\Mycar.java:1:error: package java does not exist

B. javac compiles Mycar.java without errors or warnings.

C. javac fails to compile the class and prints the error message, C:\workspace4\Mycar.java:1:error: expected import java.lang

D. javac fails to compile the class and prints the error message, Error: Could not find or load main class Mycar.class

Question:20

1.public interface Pastry {

2. void getIngredients();

3.}

4.abstract class Cookie implements Pastry {}

5.

6.class ChocolateCookie implements Cookie {

7. publicvoid getIngredients() {}

8.}

9.class Coconut ChocolateCookie extends ChocolateCookie {

10. void getIngredients (int x) {}

11.}

Which is true?

A. The *compilation* fails due to an error in line 6.

B. The compilation succeeds.

C. The compilation fails due to an error in line 4.

D. The compilation fails due to an error in line 10.

E. The compilation fails due to an error in line 7.

F. The compilation fails due to an error in line 9.

G. The compilation fails due to an error in line 2.

Question :21

StringBuilder s = new StringBuilder("ABCD");

Which would cause s to be AQCD?

A. s.replace(s.indexOf(“A”), s.indexOf(“C”), “Q”);

B. s.replace(s.indexOf(“B”), s.indexOf(“C”), “Q”);

C. s.replace(s.indexOf(“B”), s.indexOf(“B”), “Q”);

D. s.replace(s.indexOf(“A”), s.indexOf(“B”), “Q”);

Q22

package com.lti.classapp;

import java.util.ArrayList;

class Employee {

String office;

}

and the code fragment:

5. public class HRApp

6.var employee = new ArrayList<Employee>();

7. public void display() {

8. var employee = new Employee();

9. var offices=new ArrayList<>();

10. offices.add("Chicago");

11. offices.add("Bangalore");

12. for (var office : offices) { // Explicitly declared type

13. System.*out*.println("Employee Location: " + office);

14. }

15. }

16. }

Which two lines cause compilation errors? (Choose two.)

A. line 12

B. line 6

C. line 9

D. line 8

E. line 7

Q23.Which describes a characteristic of setting up the Java development environment?

A. Setting up the Java development environment requires that you also install the JRE.

B. The Java development environment is set up for all operating systems by default.

C. You set up the Java development environment for a specific operating system when you install the JDK.

D. Setting up the Java development environment occurs when you install an IDE before the JDK.

Question: 24

Given:

package test.t1;

public class A {

public int x = 42;

protected A() {} // line 1

}

and

package test.t2;

import test.t1.\*;

public class B extends A {

int x = 17; // line 2

public B() { super(); } // line 3

}

and

package test;

import test.t1.\*;

import test.t2.\*;

public class Tester {

public staticvoid main(String[] args) {

A obj = new B(); // line 4

System.*out*.println(obj.x); // line 5

}

}

What is the result?

A. 42

B. The compilation fails due to an error in line 4.

C. 17

D. The compilation fails due to an error in line 3.

E. The compilation fails due to an error in line 2.

F. The compilation fails due to an error in line 1.

G. The compilation fails due to an error in line 5.

Q25)Given:

public class Foo {

public <T> Collection<T> foo(Collection<T> arg) { ... }

}

and

public class Bar extends Foo { ... }

Which two statements are true if the method is added to Bar? (Choose two.)

A. public Collection<String> foo(Collection<String> arg) { ... } overrides Foo.foo.

B. public <T> Collection<T> foo(Stream<T> arg) { ... } overloads Foo.foo.

C. public <T> List<T> foo(Collection<T> arg) { ... } overrides Foo.foo.

D. public <T> Collection<T> foo(Collection<T> arg) { ... } overloads Foo.foo.

E. public <T> Collection<T> bar(Collection<T> arg) { ... } overloads Foo.foo.

F. public <T> Iterable<T> foo(Collection<T> arg) { ... } overrides Foo.foo.

26)What is the result?

A. ab cd ef

B. An ArrayIndexOutOfBoundsException is thrown at runtime.

C. The compilation fails.

D. abc def

E. ad be cf

Q27)executed using command:

java Hello “Hello World” Hello World

What is the output2

A. An exception is thrown at runtime.

B. Hello WorldHello World

C. Hello World Hello World

D. Hello WorldHelloWorld

E. HelloHello WorldHelloWorld

Question 28:

Given

public class Test {

private String[] strings;

}

Which two constructors will compile and set the class field strings? (Choose two.)

A.

public Test (List<String> strings) {

this.strings = strings;

}

B.

public Test (String... strings) {

strings = strings;

}

C.

public Test (String... strings) {

this.strings = strings;

}

D.

public Test (String strings) {

strings = strings;

}

E.

public Test (String[] strings) {

this.strings = strings;

}

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Question 29:

Given the code fragment:

String s1 = new String("ORACLE");

String s2 = "ORACLE";

String s3 = s1.intern();

System.out.print ((s1==s2) +" ");

System.out.print((s2==s3) + " ");

System.out.println(s1==s3);

What is the result?

A. false true true

B. true false false

C. false false true

D. false true false

Qu30:

import java.util.ArrayList;

import java.util.Arrays;

public class NewMain {

public static void main(String[] args) {

String[] fruitNames = { "apple", "orange",

"grape", "lemon", "apricot", "watermelon" };

var fruits = new ArrayList<> (Arrays.asList (fruitNames));

fruits.sort((var a, var b) -> -a.compareTo (b));

fruits.forEach (System.out::println);

}

}

What is the result?

A. watermelonorangelemongrapeapricotapple

B. nothing

C. appleapricotgrapelemonorangewatermelon

D. appleorangegrapelemonapricotwatermelon

Question 29:

Given the code fragment:

String s1 = new String("ORACLE");

String s2 = "ORACLE";

String s3 = s1.intern();

System.out.print ((s1==s2) +" ");

System.out.print((s2==s3) + " ");

System.out.println(s1==s3);

What is the result?

A. false true true

B. true false false

C. false false true

D. false true false

Question:31

Given the code fragment:

int x = 0;

while(x<10) {

System.out.print(x++);

}

Which “for” loop produces the same output?

A. int b=0;

For( ;b<10; ){

System.out.print(++b);

}

B. for(a;a<10;a++){

System.out.print(a);

}

C. for(int d = 0; d<10; ){

System.out.print(d);

++d;

}

D. for(int c = 0; ; c++){

System.out.print(c);

If(c==10){

Break;

}

}

A. Option A

B. Option B

C. Option C

D. Option D

Question:32

public interface InterfaceOne{

void printOne();

}

Which three classes successfully override printOne()? (Choose three.)

A. public abstract class TestClass implements InterfaceOne{

public abstract void printOne();

}

B. public class TestClass implements InterfaceOne{

private void printOne(){

System.out.println("one");

}

}

C. public class TestClass implements InterfaceOne{

public void printOne(){

System.out.println("one");

}

}

D. public abstract class TestClass implements InterfaceOne{

public void printOne(){

System.out.println("one");

}

}

E. public abstract class TestClass implements InterfaceOne{

public String printOne(){

return "one";

}

}

F. public class TestClass {

public void printOne(){

System.out.println("one");

}

}

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

F. Option F

Question:33

public class Test {

public static void main(String[] args) {

AnotherClass ac = new AnotherClass();

SomeClass sc = new AnotherClass();

ac = sc;

sc.methodA ();

ac.methodA ();

}

}

class SomeClass {

public void methodA () {

System.out.println("SomeClass #methodA ()");

}

}

class AnotherClass extends SomeClass {

public void methodA () {

System.out.println("AnotherClass #methodA ()");

}

}

What is the result?

A. A ClassCastException is thrown at runtime.

B. AnotherClass#methodA()AnotherClass#methodA()

C. The compilation fails.

D. SomeClass#methodA()AnotherClass#methodA()

E. AnotherClass#methodA()SomeClass#methodA()

F. SomeClass#methodA()SomeClass#methodA()

Question no: 34

Which two statements are correct about try blocks? (Choose two.)

A. A try block can have more than one catch block.

B. A finally block in a try-with-resources statement executes before the resources declared are closed.

C. A finally block must be immediately placed after the try or catch blocks.

D. A try block must have a catch block and a finally block.

E. catch blocks must be ordered from generic to specific exception types.

Question no: 35

public class Over {

public void analyze(Object[] o) {

System.*out*.println("I am an object array");

}

public void analyze (long[] l) {

System.*out*.println("I am an array");

}

public void analyze(Object o) {

System.*out*.println("I am an object");

}

public static void main(String[] args) {

int[] nums = new int[10];

new Over().analyze(nums); // line 1

}

}

What is the output?

A. I am an object array

B. The compilation fails due to an error in line 1.

C. I am an array

D. I am an object

Question no: 36

public class Price {

private final double value;

public Price(String value) {

this(Double.parseDouble(value));

}

public Price(double value) {

this.value = value;

}

public Price() {

}

public double getValue() {

return value;

}

public static void main(String[] args) {

Price pl = new Price("1.99");

Price p2 = new Price(2.99);

Price p3 = new Price();

System.out.println(pl.getValue() + ", " + p2.getValue() + ", " +p3.getValue());

}

}

What is the result?

A. The compilation fails.

B. 1.99,2.99,0

C. 1.99,2.99,0.0

D. 1.99,2.99

Question 37:

class ConSuper{

protected ConSuper() {

this(2);

System.*out*.println("1");

}

protected ConSuper(int a) {

System.*out*.println(a);

}

}

public class ConSub extends ConSuper{

ConSub(){

this(4);

System.*out*.println("3");

}

ConSub(int a){

System.*out*.println(a);

}

public static void main(String[] args) {

new ConSub(4);

}

}

What is the result?

A. 2134

B. 2143

C. 214

D. 234

Question 38:

public class Tester {

public static void main(String[] args) {

String s = "this is it";

int x = s.indexOf("is");

s.substring(x+3);

x = s.indexOf("is");

System.*out*.println(s+" "+x);

}

}

What is the result?

A. is it 1

B. An IndexOutOfBoundsException is thrown at runtime.

C. is it 0

D. this is it 2

E. this is it 3

Question 39:

Which two commands are used to identify class and module dependencies? (Choose two.)

A. jmod describe

B. java Hello.java

C. jdeps --list-deps

D. jar --show-module-resolution

E. java --show-module-resolution

Question 40:

public class Main {

public static void main(String[] args) {

String[][] arr = { { "Red", "White" }, { "Black" }, { "Blue", "Yellow", "Green", "Violet" } };

for (int row = 0; row < arr.length; row++) {

int column = 0;

for (; column < arr[row].length; column++) {

System.out.println("[" + row + "," + column + "] = " + arr[row][column]);

}

}

}

}

What is the result?

A. [0,0] = Red[0,1] = White[1,0] = Black[1,1] = Blue[2,0] = Yellow[2,1] = Green[3,0] = Violet

B. [0,0] = Red[1,0] = Black[2,0] = Blue

C. java.lang.ArrayIndexOutOfBoundsException thrown

D. [0,0] = Red[0,1] = White[1,0] = Black[2,0] = Blue[2,1] = Yellow[2,2] = Green[2,3] = Violet

Question 41:

import java.time.LocalDate;

import static java.time.DayOfWeek.\*;

public class Main {

public static void main(String[] args) {

var today = LocalDate.*now*().with(*TUESDAY*).getDayOfWeek();

switch (today) {

case *SUNDAY*:

case *SATURDAY*:

System.*out*.println("Weekend");

break;

case *MONDAY*:

FRIDAY: System.*out*.println("Working");

default:

System.*out*.println("Unknown");

}

}

}

What is the result?

A. WorkingUnknown

B. Unknown

C. TuesdayUnknown

D. The compilation fails.

E. Tuesday

F. Working

Question 42:   
    
 public interface A {

abstract void x();   
 }

and

public abstract class B /\* position 1 \*/ {

/\* position 2 \*/   
 public void x() { }

public abstract void z();   
 }

and

public class C extends B implements A {   
 /\* position 3 \*/   
 }

Which code, when inserted at one or more marked positions, would allow classes B and C to compile?

A. @Override // position 3void x () {} // position 3@Override // position 3public void z() { } // position 3

B. @Override // position 2public void z() { } // position 3

C. implements A // position 1@Override // position 2

D. public void z() { } // position 3

Question 44:

Which two statements are correct about modules in Java? (Choose two.)

A. java.base exports all of the Java platforms core packages.   
 B. module-info.java can be placed in any folder inside module-path.   
 C. A module must be declared in module-info.java file.   
 D. module-info.java cannot be empty.   
 E. By default, modules can access each other as long as they run in the same folder

Question 45:

Which two describe reasons to modularize the JDK? (Choose two.)

A. easier to understand the Java language   
 B. improves security and maintainability   
 C. easier to expose implementation details   
 D. improves application robustness   
 E. easier to build a custom runtime linking application modules and JDK modules

   
 Question 46:

public class Test {

public static void main(String[] args) {

int x;

int y = 5;

if (y > 2) {

x = ++y;

y = x + 7;

} else {

y++;

}

System.*out*.print(x + " " + y);

}

}

Question 47:

class DNASynth {

int aCount;

int tCount;

int cCount;

int gCount;

void setACount (int cCount) {

cCount = cCount;

}

void setTCount () {

this.tCount = tCount;

}

int setCCount () {

return cCount;

}

int setGCount (int g) {

gCount = g;

return gCount;

}

void setAllCounts (int x) {

aCount = tCount = this.cCount = setGCount (x);

}

}

Which two methods modify field values? (Choose two.)

A. setAllCounts

B. setACount

C. setGCount

D.setCCount

E. setTCount

Question 48:

public class Tester {

public static void main(String[] args) {

char letter = 'b';

int i = 0;

switch (letter) {

case 'a':

i++;

break;

case 'b':

i++;

case 'c' | 'd': // line 1

i++;

case 'e':

i++;

break;

case 'f':

i++;

break;

default:

System.*out*.print(letter);

}

System.*out*.println(i);

}

}

What is the result?   
 A. b1   
 B. 2   
 C. b2   
 D. 1   
 E. b3   
 F. 3   
 G. The compilation fails due to an error in line 1

Question 49

public class Test {

public static void main(String[] args) {

// TODO Auto-generated method stub

int x = 0;

do {

x++;

if (x == 1) {

continue;

}

System.*out*.println(x);

} while (x < 1);

}

}

What is the result?

A. 01

B. 0

C. 1

D. The program prints nothing.

E. It prints 1 in the infinite loop.

Question 50:

public class foo

{

public static void main (String ... args)

{

for (var x : args) {

System.*out*.println(x);

}

}

}

What is the type of the local variable x?

A. Character

B. char

C. String[ ]

E. String

Question 51:

public class Test {

static String *prefix* = "Global:";

private String name = "namescope";

public static String getName () {

return new Test ().name;

}

public static void main (String[] args) {

Test t = new Test ();

System.*out*.println (/\* Insert code here \*/ Test.*prefix*+Test.*getName*()

);

}

}

Which two options can you insert inside println method to produce Global:namescope? (Choose two.)

A. Test.prefix+Test.name

B. new Test().prefix+new Test().name

C. Test.prefix+Test.getName()

Question 52.   
 import java.util .\*;   
 public class Foo {   
 public List<Number> foo(Set<CharSequence> m) { ... }

}   
 and

import java.util .\*;   
 public class Bar extends Foo {   
 //line 1   
 }

Which two statements can be added at line 1 in Bar to successfully compile it? (Choose two.)

A. public List<Integer> foo(Set<CharSequence> m) { ... }    
 B. public ArrayList<Number> foo(Set<CharSequence> m) { ... }    
 C. public List<Integer> foo(TreeSet<String> m) { ... }    
 D. public List<Integer> foo(Set<String> m) { ... }    
 E. public List<Object> foo(Set<CharSequence> m) { ... }    
 F. public ArrayList<Integer> foo(Set<String> m) { ... }

Question 53:

public class Foo {   
 private void print () {   
 System. out.println ("Bonjour le monde!");   
 }

public void foo () {   
 print ();   
 }   
 }

public class Bar extends Foo {   
 private void print () {   
 System.out.println ("Hello world!");   
 }

public void bar () {   
 print ();   
 }   
 public static void main (String ... args) {   
 Bar b = new Bar ();   
 b.foo();   
 b.bar ();   
 }   
 }

What is the output?   
 A. Hello world!Bonjour le monde!   
 B. Hello world!Hello world!   
 C. Bonjour le monde!Hello world!   
 D. Bonjour le monde!Bonjour le monde!

Question 54:   
 public method foo() throws FooException {

... }

and omitting the throws FooException clause results in a compilation error.   
 Which statement is true about FooException?   
 A. FooException is a subclass of RuntimeError.   
 B. FooException is unchecked.   
 C. The body of foo can only throw FooException.   
 D. The body of foo can throw FooException or one of its subclasses.

Question: 55

Which describes an aspect of Java that contributes to high performance?

A. Java prioritizes garbage collection.

B. Java has a library of built-in functions that can be used to enable pipeline burst execution.

C. Java monitors and optimizes code that is frequently executed.

D. Java automatically parallelizes code execution.

Question: 56

Given:

public class MethodTest {

// line 1

}

Which two method implementations are correct, when inserted independently in line 1? (Choose two.)

A.

public boolean methodD(int x) {

return x > 0;

}

B.

public boolean methodB() {

System.out.println("methodB");

}

C.

public char methodE(String msg) {

return msg;

}

D.

public void methodC(int x) {

return x++;

}

E.

public void methodA() {

System.out.println("methodA");

}

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Question: 57

Given the formula to calculate a monthly mortgage payment:

and these declarations:

double m; //monthly payment

double r = 0.05/12; //monthly interest rate

int p = 100\_000; //principal

int n = 180; //number of payments

How can you code the formula?

A. m = p \* (r \* Math.pow(1 + r, n) / (Math.pow(1 + r, n) - 1));

B. m = p \* ((r \* Math.pow(1 + r, n) / (Math.pow(1 + r, n)) - 1));

C. m = p \* r \* Math.pow(1 + r, n) / Math.pow(1 + r, n) - 1;

D. m = p \* (r \* Math.pow(1 + r, n) / Math.pow(1 + r, n) - 1);

**Question: 61**

package com.lti.practiceSessionOne;

public class Main {

public static void main(String[] args) {

for (int i = 0; i < args.length; i++) {

System.out.println(i + "). " + args[i]);

switch (args[i]) {

case "one":

continue;

case "two":

i--;

continue;

default:

break;

}

}

}

}

executed with this command:

java Main one two three What is the result?

A. 0). one

B. 0). one1). two2). three

C. The compilation fails.

D. It creates an infinite loop printing:0). one1). two1). two...

E. A java.lang.NullPointerException is thrown

**Question: 62**

Given:

public interface Builder {

public A build (String str);

}

and

public class BuilderImpl implements Builder {

@Override

public B build (String str) {

return new B(str);

}

}

Assuming that this code compiles correctly, which three statements are true? (Choose three.)

A. B cannot be abstract.

B. B is a subtype of A.

C. A cannot be abstract.

D. A cannot be final.

E. B cannot be final.

F. A is a subtype of B.

**Question: 63**

Given:

public class Sportscar extends Automobile{

private float turbo;

public void setTurbo (float turbo) {

this.turbo = turbo;

}

}

What is known about the Sportscar class?

A. The Sportscar class is a subclass of Automobile and inherits its methods.

B. The Sportscar subclass cannot override set Turbo method from the superclass Automobile.

C. The Sportscar class is a superclass that has more functionality than the Automobile class.

D. The Sportscar class inherits the setTurbo method from the superclass Automobile

**Question: 64**

**package** com.ltim.questions;

**import** java.nio.file.Path;

**import** java.util.Collection;

**public** **class** Question64 {

**public** **interface** A {

**public** Iterable a();

}

**public** **interface** B **extends** A {

**public** Collection a();

}

**public** **interface** C **extends** A {

**public** Path a();

}

**public** **interface** D **extends** B, C {

}

}

A. D inherits a() only from C.

B. D inherits a() from B and C but the return types are incompatible.

C. D extends more than one interface.

D. D does not define any method. give me very correct answer of this question

**Question: 65**

**package** com.ltim.ques65;

**import** java.time.\*;

**public** **class** Diary {

**private** LocalDate now = LocalDate.*now*();

**public** LocalDate getDate() {

**return** now;

}

}

And

**package** com.ltim.ques65;

**public** **class** Tester {

**public** **static** **void** main(String[] args) {

Diary d = **new** Diary ();

System.***out***.println(d.getDate());

}

}

Which statement is true?

A. Class Tester does not need to import java.time.LocalDate because it is already visible to members of the package test.

B. All classes from the package java.time. are loaded for the class Diary.

C. Only LocalDate class from java.time package is loaded.

D. Tester must import java.time.LocalDate in order to compile.

**Questions: 66**

package A; class Test {

String name;

public Test (String name) {

this.name = name;

}

public String toString() {

return name;

and

package B;

import A.Test;

public class Main {

public static void main(String[] args) {

Test test = new Test ("Student");

System.out.println(test);

What is the result?

A. null

B. nothing

C. It fails to compile.

D. java.lang.IllegalAccessException is thrown.

E. Student

67

List<String> list = ... ;

list.forEach(x -> { System.out.println(x); });

What is the type of x?

A. char

B. List

C. String

D. List

--------------------------------------------------------------------------------------------------------------

68

Which statement about access modifiers is correct?

A. An instance variable can be declared with the static modifier.

B. A local variable can be declared with the final modifier.

C. An abstract method can be declared with the private modifier.

D. An inner class cannot be declared with the public modifier.

E. An interface can be declared with the protected modifier

--------------------------------------------------------------------------------------------------------------

69

**public** **static** **void** main(String[] args) {

List<Integer> even = List.*of*();

even.add(0, -1);

even.add(0, -2);

even.add(0, -3);

System.***out***.println(even);

}

What is the output?

A. The compilation fails.

B. [-1, -2, -3]

C. [-3, -2, -1]

D. A runtime exception is thrown.

--------------------------------------------------------------------------------------------------------------

70

Which command line runs the main class com.acme.Main from the module com.example?

A. java --module-path mods com.example/com.acme.Main

B. java –classpath com.example.jar com.acme.Main

C. java --module-path mods -m com.example/com.acme.Main

D. java -classpath com.example.jar –m com.example/com.acme.Main

71

**import** java.util.\*;

**public** **class** Main {

**static** Map<String, String> *map* = **new** HashMap<>();

**static** List<String> *keys* = **new** ArrayList<>(List.*of* ("A", "B", "C", "D"));

**static** String[] *values* = {"one", "two", "three", "four" };

**static** {

**for** (**var** i = 0; i < *keys*.size(); i++) {

*map*.put(*keys*.get(i), *values*[i]);

}

}

**public** **static** **void** main(String[] args) {

*keys*.clear();

*values* = **new** String[0];

System.***out***.println("Map:" + *map*.size() +

" Keys: " + *keys*.size() +

" Values: " + *values*.length);

}

}

What is the result?

A. Map: 0 Keys: 0 Values: 0

B. The compilation fails.

C. Map: 4 Keys: 4 Values: 4

D. Map: 4 Keys: 0 Values: 0

E. Map: 0 Keys: 4 Values:

72

**class** Person{

**private** String name;

**public** **void** setName(String name) {

String title = "Dr. ";

name = title+name;

}

**public** String toString() {

**return** name;

}

}

And,

**public** **class** Test {

**public** **static** **void** main(String[] args) {

Person p = **new** Person();

p.setName("Who");

System.***out***.println(p);

}

}

What is the result?

A. Dr. Who

B. Dr. Null

C. An exception is thrown at runtime.

D. null

--------------------------------------------------------------------------------------------------------------

**Question:** 73

**public** **class** Test {

**private** **int** sum;

**public** **int** compute() {

**int** x = 0;

**while**(x<3) {

sum += x++;

}

**return** sum;

}

**public** **static** **void** main(String[] args) {

Test t = **new** Test();

**int** sum = t.compute();

sum = t.compute();

t.compute();

System.***out***.println(sum);

}

}

What is the result?

A. 9

B. An exception is thrown at runtime

C. 3

D. 6

**Question:** 74

**class** X {

**private** Collection collection;

**public** **void** set(Collection collection) {

**this**.collection = collection;

}

}

And,

**public** **class** Y **extends** X{

**public** **void** set(Map<String, String> map) {

**super**.set(map); //line 1

}

}

Which two lines can replace line 1 so that the Y class compiles? (Choose two.)

A. map.forEach((k, v) -> set(v)));

B. set(map.values());

C. super.set(List map)

D.super.set(map.values());

E. set(map)

**Question:** 75

**package** A;

**public** **abstract** **class** Animal {

**protected** **abstract** **void** walk();

}

**package** B;

**public** **abstract** **class** Human **extends** Animal{

// line 1

}

Which two lines inserted in line 1 will allow this code to compile? (Choose two.)

A. protected void walk(){}

B. void walk(){}

C. abstract void walk();

D. private void walk(){}

E. public abstract void walk();

-------------------------------------------------------------------------------------------------------------

**Question:** 76

**public** **class** Tester {

**public** **static** **void** main(String[] args) {

**int** x = 4;

**int** y = 2;

System.***out***.println(x+y+"=(x+y)="+x+y);

}

}

What is the result?

A. An exception is thrown at runtime.

B. 42=(x+y)=42

C. 42=(x+y)=6

D. 6=(x+y)=42

E. 6=(x+y)=6

**Question: 77**

**public** **class** Tester {

**public** **static** **void** main(String[] args) {

**byte** x = 7, y = 6;

// line 1

System.***out***.println(z);

}

}

Which expression when added at line 1 will produce the output of 1.17?

A. float z = (float)(Math.round((float)x/y\*100)/100);

B. float z = Math.round((int)(x/y),2);

C. float z = Math.round((float)x/y,2);

D. float z = Math.round((float)x/y\*100)/(float)100

**Question: 78**

**public** **class** Main {

**public** **static** **void** main(String[] args) {

**int** i = 1;

**for** (String s : args) {

System.***out***.println( (i++) + ") " + s);

}

}

}

executed with this command: \

java Main one two three

What is the output of this class?

A. The compilation fails.

B. 1) one2) two3) three

C. A java.lang.ArrayIndexOutOfBoundsException is thrown.

D. 1) one

E. nothing

**Question: 79**

Which three initialization statements are correct? (Choose three.)

A. int x = 12\_34;

B. short sh = (short)‘A’;

C. String contact# = “(+2) (999) (232)”;

D. boolean true = (4 == 4);

E. float x = 1.99;

F. int[][] e = {{1,1},{2,2}};

G. byte b = 10; char c = b;

**Question: 80**

**import** java.io.FileNotFoundException;

**import** java.io.IOException;

**public** **class** Tester {

**public** **static** **void** main(String[] args) {

**try** {

doA ();

} //line 1

**private** **static** **void** doA() **throws** IOException, IndexOutOfBoundsException {

**if** (**false**) {

**throw** **new** FileNotFoundException();

} **else** {

**throw** **new** IndexOutOfBoundsException();

}

}

}

What must be added in line 1 to compile this class?

A. catch(IOException e) { }

B. catch(FileNotFoundException | IndexOutOfBoundsException e) { }

C. catch(FileNotFoundException | IOException e) { }

D. catch(IndexOutOfBoundsException e) { }catch(FileNotFoundException e) { }

E. catch(FileNotFoundException e) { } catch(IndexOutOfBoundsException e) {}

**Question: 81**

Given the code fragment:

**public** **static** **void** main(String[] args) {

String s ="";

**if** (Double.*parseDouble*("11.00f") > 11) {

s += 1;

}

**if**(1\_7 == Integer.*valueOf*("17")) {

s += 2;

}

**if** (1024 > 1023L) {

s += 3;

}

System.***out***.print(s);

}

What is the result?

A. 23

B. 12

C. 123

D. 13

**Question: 82**

Given:

**public** **class** Foo {

**public** **void** foo(Collection arg) {

System.***out***.println("Bonjour le Mondel!");

}

}

And:

**public** **class** Bar **extends** Foo{

**public** **void** foo(Collection arg) {

System.***out***.println("Hello World!");

}

**public** **void** foo(List arg) {

System.***out***.println("Ola Mundo!");

}

}

And:

Foo f1 = **new** Foo();

Foo f2 = **new** Bar();

Bar b1 = **new** Bar();

Collection<String> c = **new** ArrayList<>();

Which three are true? (Choose three.)

A. b1.foo(c) prints Bonjour le monde!

B. f1.foo(c) prints Hello world!

C. f1.foo(c) prints Olá Mundo!

D. b1.foo(c) prints Hello world!

E. f2.foo(c) prints Olá Mundo!

F. b1.foo(c) prints Olá Mundo!

G. f2.foo(c) prints Bonjour le monde!

H. f2.foo(c) prints Hello world!

I. f1.foo(c) prints Bonjour le monde!

**Question: 83**

Given:

**public** **class** Person {

**private** String name = "Joe Bloggs";

**public** Person(String name) {

**this**.name=name;

}

**public** String toString() {

**return** name;

}

}

And:

**public** **class** Tester {

**public** **static** **void** main(String[] args) {

Person p1 = **new** Person(); //line1

System.***out***.println(p1);

}

}

What is the result?

A. null

B. Joe Bloggs

C. The compilation fails due to an error in line 1.

D. p1

**Question: 84**

Given:

**public** **class** DNASynth {

**int** aCount;

**int** tCount;

**int** cCount;

**int** gCount;

**int** getACount(**int** aCount){

**return** aCount;

}

**int** getTCount(**int** tCount){

**return** **this**.tCount;

}

**int** getCCount(){

**return** getTotalCount() - **this**.aCount - getTCount(0) - gCount;

}

**int** getGCount(){

**return** getGCount();

}

**int** getTotalCount(){

**return** aCount + getTCount(0) + **this**.cCount + **this**.gCount;

}

}

Which two methods facilitate valid ways to read instance fields? (Choose two.)

A. getTCount

B. getACount

C. getTotalCount

D. getCCount

E. getGCount

**Question: 85**

Given:

**public** **class** Main {

**public** **static** **void** checkConfiguration(String filename) {

File file = **new** File(filename);

**if**(!file.exists()) {

**throw** **new** Error("Fatal Error: Configuration File, "+ filename + ", is missing. ");

}

}

**public** **static** **void** main(String [] args) {

*checkConfiguration*("App.config");

System.***out***.println("Configuration is OK");

}

}

If file "App.config" is not found, what is the result?

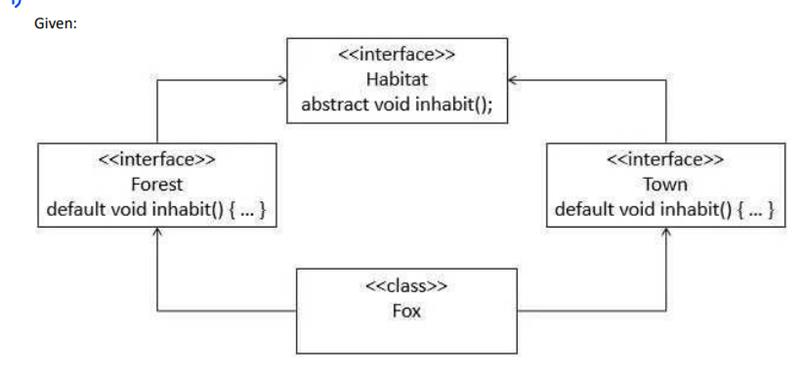
A. Configuration is OK

B. The compilation fails.

C. Exception in thread "main" java.lang.Error:Fatal Error: Configuration File, App.config, is missing.

D. nothing

**Question: 86**



Which statement is true about the Fox class?

A Fox class does not have to override inhabit method, so long as it does not try to call it

B. Fox class does not have to override the inhabit method if Forest and Town provide compatible implementations.

C. Fox class must implement either Forest or Town interfaces, but not both.

D. The inhabit method implementation from the first interface that Fox implements will take precedence.

E. Fox class must provide implementation for the inhabit method.

**Question: 87**

Given:

**public** **class** Foo {

**public** **void** foo(Collection arg) {

System.***out***.println("Bonjour le monde!");

}

}

and

**public** **class** Bar **extends** Foo{

**public** **void** foo(Collection arg) {

System.***out***.println("Hello world!");

}

**public** **void** foo(List arg) {

System.***out***.println("Hola Mundo!");

}

}

and

Foo f1 = **new** Foo();

Foo f2 = **new** Bar();

Bar b1 = **new** Bar();

List<String> li = **new** ArrayList<>();

Which three are correct? (Choose three.)

A. b1.foo(li) prints Hello world!

B. f1.foo(li) prints Bonjour le monde!

C. f1.foo(li) prints Hello world!

D. f1.foo(li) prints Hola Mundo!

E. b1.foo(li) prints Bonjour le monde!

F. f2.foo(li) prints Hola Mundo!

G. f2.foo(li) prints Bonjour le monde!

H. b1.foo(li) prints Hola Mundo!

I. f2.foo(li) prints Hello world!

**Question: 88**

Automobile.java:

**public** **abstract** **class** Automobile {

**abstract** **void** wheels();

}

Car.java:

**public** **class** Car **extends** Automobile{

//line 2

**void** wheels(){ //line 3

System.***out***.print(4);

}

**public** **static** **void** main(String[] args){

Automobile ob = **new** Car(); // line 4

ob.wheels();

}

}

What must you do so that the code prints 4?

A. Remove the parameter from wheels method in line 3.

B. Add @Override annotation in line 2.

C. Replace the code in line 2 with Car ob = new Car();

D. Remove abstract keyword in line 1

**Question: 89**

/code/a/Test.java

containing:

package a;   
import b.Best;   
 public class Test{   
 public static void main (String[] args){   
 Best b= new Best();   
 }   
 }

and

//code/b/Best.java

containing:

package b;

class Best{}

Which is the valid way to generate bytecode for all classes?

A. java /code/a/Test.java   
B. javac –d /code /code/a/Test   
C. java /code/a/Test.java /code/b/Best.java   
D. java –cp /code a.Test   
E. javac –d /code /code/a/Test.java /code/b/Best.java-- Answer   
F. javac –d /code /code/a/Test.java

**Question: 90**

Examine this excerpt from the declaration of the java.se module:

module java.se {   
 ...   
 requires transitive java.sql;   
 ...   
 }

What does the transitive modifier mean?

A. Only a module that requires the java.se module is permitted to require the java.sql module.   
B. Any module that requires the java.se module does not need to require the java.sql module.    
 C. Any module that attempts to require the java.se module actually requires the java.sql module    
 instead.   
 D. Any module that requires the java.sql module does not need to require the java.se module.

**Question: 91**

Given:

**public** **class** Person {

**private** String name;

**public** Person (String name) {

**this**.name = name;

}

**public** String toString() {

**return** name;

}

}

and   
   
**import** com.rough.Person;

**public** **class** Tester {

**public static** **void** main(String[] args) {

Person p = **null**;

*checkPerson* (p);

System.***out***.println(p);

p = **new** Person ("Mary");

*checkPerson* (p);

System.***out***.println (p);

}

**public static** Person checkPerson (Person p) {

**if** (p == **null**) {

p = **new** Person ("Joe");

}**else**{

p = **null**;

}

**return** p;

}

}

What is the result?    
A. JoeMarry    
B. Joenull    
C. nullnull    
D. nullMary

**Question:92**

Given:

**class** Super {

**static** String greeting() { **return** "Good Night"; }

String name () { **return** "Harry"; }

}

**class** Sub **extends** Super {

**static** String greeting () { **return** "Good Morning"; }

String name () { **return** "Potter"; }

}

**class** Test {

**publicstatic** **void** main(String[] args) {

Super s = **new** Sub ();

System.***out***.println(s.*greeting*() + ", "+s.name ());

}

}

What is the result?    
A. Good Morning, Potter    
B. Good Night, Potter   
C. Good Morning, Harry    
D. Good Night, Harry

**Question: 93**

**public** **class** Main {

**public static** **void** greet (String... args) {

System.***out***.print ("Hello ");

**for** (String arg: args) {

System.***out***.println(arg);

}

}

**publicstatic** **void** main(String[] args) {

Main c = **null**;

c.*greet*();

}

}

What is the result?   
A. NullPointerException is thrown at line 4.    
B. NullPointerException is thrown at line 10.   
C. A compilation error occurs.    
D. Hello

**Question: 94**

Given:

for (var i = 0; i < 10; i++) {

switch (i%5) {

case 2:

i \*= i;

break;

case 3:

i++;

break;

case 1:

case 4:

i++;

continue;

default:

break;

}

System.out.print(i + " ");

i++;

}

What is the result?

A. nothing

B. 0

C. 10

D. 0 4 9

**Question: 95**

What makes Java dynamic?

A. At runtime, classes are loaded as needed, and new code modules can be loaded on demand.

B. The runtime can process machine language sources as well as executables from different language compilers.

C. The Java compiler uses reflection to test if class methods are supported by resources of a target platform.

D. The Java compiler preprocesses classes to run on specific target platforms.

**Question: 96**

Given the code fragment:

Path currentFile = Paths.*get*("/scratch/exam/temp.txt");

Path outputFile = Paths.*get*("/scratch/exam/new.txt");

Path directory = Paths.*get*("/scratch/");

Files.*copy*(currentFile, outputFile);

Files.*copy*(outputFile, directory);

Files.*delete*(outputFile);

The /scratch/exam/temp.txt file exists. The /scratch/exam/new.txt and /scratch/new.txt files do not exist.

What is the result?

A. /scratch/exam/new.txt and /scratch/new.txt are deleted.

B. The program throws a FileAlreadyExistsException.

C. The program throws a NoSuchFileException.

D. A copy of /scratch/exam/new.txt exists in the /scratch directory and /scratch/exam/new.txt is deleted.

**Question:97**

Which two are functional interfaces? (Choose two.)

@FunctionalInterface

**interface** MyRunnable{

**public** **void** run();

}

@FunctionalInterface

**interface** MyRunnable{

**public** **void** run();

**public** **void** call();

}

@FunctionalInterface

**interface** MyRunnable{

**public** **default** **void** run() {}

**public** **void** run(String s);

}

@FunctionalInterface

**interface** MyRunnable{

}

**interface** MyRunnable{

@FunctionalInterface

**public** **void** run();

}

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

**Question: 98**

Given the declaration:

**@interface** Resource{

String name();

**int** priority() **default** 0;

}

Examine this code fragment:

/\* Loc1 \*/ class ProcessOrders { ... }

Which two annotations may be applied at Loc1 in the code fragment? (Choose two.)

A. @Resource(priority=100)

B. @Resource(priority=0)

C. @Resource(name=“Customer1”, priority=100)

D. @Resource(name=“Customer1”)

E. @Resource

**Question: 99**

Given:

**interface** MyInterface1{

**public** **int** method() **throws** Exception;

**private** **void** pMethod() {}

}

**interface** MyInterface2{

**public** **static** **void** sMethod() {}

**public** **boolean** equals();

}

**interface** MyInterface3{

**public** **void** method();

**public** **void** method(String s);

}

**interface** MyInterface4{

**public** **void** dMethod() {}

**public** **void** method();

}

**interface** MyInterface5{

**public** **static** **void** sMethod();

**public** **void** method(String str);

}

Which two interfaces can be used in lambda expressions? (Choose two.)

A. MyInterface1

B. MyInterface3

C. MyInterface5

D. MyInterface2

E. MyInterface4

**Question: 100**

Given this enum declaration:

1. enum Alphabet {
2. A, B, C
4. }

Examine this code:

System.out.println(Alphabet.getFirstLetter);

What code should be written at line 3 to make this code print A?

A. final String getFirstLetter() { return A.toString();

B. static String getFirstLetter() { return Alphabet.values()[1].toString(); }

C. static String getFirstLetter() { return A.toString(); }

D. String getFirstLetter() { return A.toString();

**Question: 101**

Given these two classes:

public class Resource {

public Worker owner;

public synchronized boolean claim (Worker worker) {

if(owner == null) {

owner = worker;

return true;

}

else return false;

}

public synchronized void release () {

owner = null;

}

}

public class Worker {

public synchronized void work (Resource... resources) {

for (int i = 0: i < 10: i++) {

while (!resources [0] .claim (this)){}

while (!resources [1] .claim(this) ) {}

// do. work with resource

resources [1].release();

resources [0].release );

}

}

}

And given this fragment:

Worker w1 = new Worker () ;

Worker w2 = new Worker () ;

Resource r1 = new Resource () ;

Resource r2 = new Resource ();

new Thread ( () -> {

w1. work (r2, r2) ;

} ).start () ;

new Thread ( () -> {

w2 .work(r2, r1):

} ).start ();

Which describes the fragment?

A. It throws IllegalMonitorStateException.

B. It is subject to deadlock.

C. It is subject to livelock.

D. The code does not compile.

**Question: 102**

Given:

public interface TestInterface {

default void samplingProbeProcedure () i

probeProcedure () ;

System.out.println ("Collect Sample") :

System. out.println ("Leave Asteroid") ;

System.out.println ("Dock with Main Craft");

}

default void explosionProbeProcedure () t

probeProcedure () ;

System. out println ("Explode")

}

}

Examine these requirements:

Eliminate code duplication.

Keep constant the number of methods other classes may implement from this interface.

Which method can be added to meet these requirements?

A.

private default void probeProcedure () {

System.out.println ("Launch Probe");

System.out.println("Land on Asteroid") ;

}

B.

static void probeProcedure () {

System.out.println ("Launch Probe");

System.out.println ("Land on Asteroid") ;

}

C.

private void probeProcedure () {

System.out.println ("Launch Probe") ;

System.out.println ("Land on Asteroid") ;

}

D.

default void probeProcedure () {

System.out.println ("Launch Probe");

System.out.println("land on Asteroid");

}

A. Option A

B. Option B

C. Option C

D. Option D

**Question 103**

public class Main {

public static void main(String[] args) {

Thread t1 = new Thread (new MyThread());

Thread t2 = new Thread (new MyThread());

Thread t3 = new Thread (new MyThread());

t1.start();

t2.run();

t3.start();

t1.start();

}

}

class MyThread implements Runnable{

public void run() {

System.out.println("Running.");

}

}

Which one is correct?

A. An IllegalThreadStateException is thrown at run time.

B. Three threads are created.

C. The compilation fails.

D. Four threads are created.

**Question: 104**

Which code fragment does a service use to load the service provider with a Print interface?

A. private Print print = com.service.Provider.getInstance();

B. private java.util.ServiceLoader<Print> loader = ServiceLoader.load (Print.class);

C. private java.util.ServiceLoader<Print> loader = new java.util.ServiceLoader<> ();

D. private Print print = new com.service.Provider.PrintImpl();

**Question: 105**

module ServiceAPI {

exports com.example.api;

}

module Service Provider {

requires ServiceAPI;

provides com.example.api with com.myimpl.Impl;

}

module Consumer {

requires ServiceAPI;

uses com.example.api;

}

Which two statements are correct? (Choose two.)

A. The ServiceProvider module is the only module that, at run time, can provide the

com.example.api API.

B. The placement of the com.example.api API in a separate module, ServiceAPI, makes it easy to install multiple provider modules.

C. The Consumer module should require the ServiceProvider module.

D. The ServiceProvider module should export the com.myimpl package.

E. The ServiceProvider module does not know the identity of a module (such as Consumer) that uses the com.example.api API

**Question 106**

**package** com.practice;

**import** java.util.Optional;

**public** **class** Main {

**public static** **void** main(String[] args) {

                            Optional<String> value = *createValue*();

                            String str = value.orElse("Duke");

                            System.***out***.println(str);

             }

**static** Optional<String> createValue() {

             String s = **null**;

**return** Optional.*ofNullable*(s);

}

}

What is the output?

A. null

B. A NoSuchElementException is thrown at run time.

**C. Duke**

D. A NullPointerException is thrown at run time.

**Question 107**

**package** com.lambda;

**public** **class** Test {

**private** **static** **class** Greet {

**private** **void** print () {

System.***out***.println("Hello World");

}

}

**public** **static** **void** main(String[] args) {

             Test.Greet i= **new** Greet ();

             i.print();

}

}

What is the result?

A. The compilation fails at line 9.

B. The compilation fails at line 2.

**C. Hello World**

D. The compilation fails at line 8

**Question 108**

try (Connection conn = ds.getConnection();

PreparedStatement ps = conn.prepareStatement("INSERT INTO EMP VALUES (?, ?, ?)"))

{

   ps.setObject(1, 101, JDBCType.INTEGER);

   ps.setObject(2, "SMITH", JDBCType.VARCHAR);

   ps.setObject(3, "HR", JDBCType.VARCHAR);

  ps.executeUpdate();

   ps.setInt(1, 102);

   ps.setString(2, "JONES");

  ps.executeUpdate();

}

What does executing this code fragment do?

A. inserts two rows (101, 'SMITH', 'HR') and (102, 'JONES', NULL)

**B. inserts two rows (101, 'SMITH', 'HR') and (102, 'JONES', 'HR')**

C. inserts one row (101, 'SMITH', 'HR')

D. throws a SQLException

**Question: 109**

Assuming the Widget class has a getPrice method, this code does not compile:

List widgets = List.of( new Widget ("Basic Widget", 19.55), // line 1

new Widget ("Enhanced Widget", 35.00),

new Widget ("Luxury Edition Widget", 55.45));

Stream widgetStream = widgets.stream(); // line 4

widgetStream.filter(a -> a.getPrice() > 20.00) // line 5

.forEach (System.out::println);

Which two statements, independently, would allow this code to compile? (Choose two.)

A. Replace line 5 with widgetStream.filter(a −> ((Widget)a).getPrice() > 20.00).

B. Replace line 1 with List widgetStream = widgets.stream();

C. Replace line 5 with widgetStream.filter((Widget a) −> a.getPrice() > 20.00).

D. Replace line 4 with Stream<Widget> widgetStream = widgets.stream();

**Question: 110**

var numbers = List.of (1,2,3,4,5,6,7,8,9,10); // line 1

StringBuilder sb = new StringBuilder();

for(int a: numbers) {

sb.append(f.apply(a));

sb.append("");

}

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

Which statement on line 1 enables this code to compile?

**A. Function <Integer, Integer>f = n −> n \* 2;**

B. Function <int> f = n −> n \* 2;

C. Function <Integer> f = n −> n \* 2;

D. Function <int, int>f = n −> n \* 2;

E. Function f = n −> n \* 2;

**Question: 111**

var fruits List.of("apple", "orange", "banana", "lemon");

You want to examine the first element that contains the character n. Which statement will accomplish this?

A. String result = fruits.stream().filter(f-> f.contains("n")).findAny();

B. fruits.stream().filter(f-> f.contains("n")).forEachOrdered(System.out::print);

**C. Optional<String> result = fruits.stream().filter(f->f.contains ("n")).findFirst ();**

D. Optional<String> result = fruits.stream().anyMatch(f->f.contains("n"));

**Question: 112** 

public class Foo {

    private final ReentrantLock lock = new ReentrantLock();

    private State state;

    public void foo() throws Exception {

        try {

            lock.lock();

            state.mutate();

        } finally {

            lock.unlock();

        }

    }

}

What is required to make the Foo class thread safe?

A. No change is required.

B. Make the declaration of lock static.   
C. Replace the lock constructor call with new ReentrantLock (true).

D. Move the declaration of lock inside the foo method.

**Question: 113**

     var data = new

  ArrayList<>();

  data.add("Peter");

  data.add(30);

  data.add("Market Road");

  data.set(1, 25);

  data.remove(2); data.set(3,

  1000L);

  System.out.print(data);

  What is the output?

A. [Market Road, 1000]

B. [Peter, 30, Market Road]

C. [Peter, 25, null, 1000]   
D. An exception is thrown at run time

**Question: 114**

Which code fragment compiles?

A. Comparator comparator = new Comparator <?>() {

      public int compare (Integer i, Integer j) {

  return i.compareTo (j) ;

      }

    };

B. var comparator = new Comparator<> () {

    public int compare (Integer i,Integer j){

  return i.compareTo(j);   
      }

};

C. Comparator<> comparator = new Comparator<Integer>() {

     public int compare (Integer i,Integer j){

      return i.compareTo(j);

      }

 };

D. Comparator<Integer> comparator = new Comparator<>() {

     public int compare (Integer i, Integer j){

      return i.compareTo (j);

     }

};

A. Option A

B. Option B

C. Option C   
D. Option D

**Question: 115**

Which two are successful examples of autoboxing? (Choose two.)

A. String a = “A”;

**B. Integer e = 5;**

C. Float g = Float.valueOf(null);

**D. Double d = 4; E. Long c = 23L; F. Float f = 6.0;**

**Question: 116**

Given:

public class Hello {

class Greeting {

void sayHi() {

System.out.println("Hello world");

}

}

public static void main(String... args) {

// Line 1

}

}

What code must you insert on Line 1 to enable the code to print Hello world?

A. Hello.Greeting myG = new Hello.Greeting() myG.sayHi();

**B. Hello myH = new Hello(); Hello.Greeting myG = myH.new Greeting(); myG.sayHi();**

C. Hello myH = new Hello(); Hello.Greeting myG = myH.new Hello.Greeting(); myG.sayHi();

D. Hello myH = new Hello(); Greeting myG = new Greeting(); myG.sayHi ();

**Question: 117**

Which code fragment prints 100 random numbers?

A. var r new Random();

new DoubleStream(r::nextDouble).limit(100).forEach (System.out::print),

B. DoubleStream.generate (Random:: nextDouble) limit (100).forFach (System.out::print);

C. Doublestream.generate (Random.nextDouble).limit(100).forEach(System.out.print);

D. var r = new Random(); DoubleStream.generate (r::nextDouble).limit(100).forEach(System.out::print);

A. Option A

B. Option B

C. Option C

**D. Option D**

**Question: 118**

You are working on a functional bug in a tool used by your development organization. In your investigation, you find that the tool is executed with a security policy file containing this grant.

grant codebase “File:${klib.home}/j2se/home/klib.jar”{

permission java.security.AllPermission;

}

What action should you take?

A. Nothing, because it is an internal tool and not exposed to the public.

B. Remove the grant because it is excessive.

C. Nothing, because it is not related to the bug you are investigating.

**D. File a security bug against the tool referencing the excessive permission granted.**

E. Nothing, because listing just the required permissions would be an ongoing maintenance challenge.

**Question: 119**

Given an application with a main module that has this [module-info.java](http://module-info.java) file:

module main {

exports country;

uses country. CountryDetails;

}

Which two are true? (Choose two.)

A. A module providing an implementation of country. CountryDetails can be compiled and added without recompiling the main module.

B. A module providing an implementation of country. Country Details must have a requires main; directive in its [module-info.java](http://module-info.java) file.

C. An implementation of country.countryDetails can be added to the main module.

D. To compile without an error, the application must have at least one module in the module source path that provides an implementation of country.Country Details.

E. To run without an error, the application must have at least one module in the module path that provides an implementation of country.CountryDetails.

**Question: 120**

enum Color implements Serializable {

R(1), G(2), B(3);

int c;

public Color (int c) {

this.c = c;

}

}

What action ensures successful compilation?

A. Replace public Color(int c) with private Color(int c).

B. Replace int c; with private int c;.

C. Replace int c; with private final int c;.

D. Replace enum Color implements Serializable with public enum Color.

E. Replace enum Color with public enum Color.

**Question: 121**

var numbers = List.of(0,1,2,3,4,5,6,7,8,9);

You want to calculate the average of numbers. Which two codes will accomplish this? (Choose two.)

A. double avg = numbers.stream().parallel().averagingDouble(a −> a);

B. double avg = numbers.parallelStream().mapToInt (m −> m).average().getAsDouble ();

C. double avg = numbers.stream().mapToInt (i −> i).average().parallel();

D. double avg = numbers.stream().average().getAsDouble();

E. double avg = numbers.stream().collect(Collectors.averagingDouble(n −> n));

**Q.122)**

List<String> fruits = new ArrayList<> (List. of ("apple", "orange", "banana") ) ;

fruits. replaceAll (function) ;

Which statement on line 1 enables this code fragment to compile?

A. Function function = String :: toUpperCase;

B. UnaryOperator function = s -> s.toUpperCase();

C. UnaryOperator<String> function = String :: toUpperCase;

D. Function<String> function = m -> m.toUpperCase();

**Question:-123**

try {

// line 1

lines.map(1 -> 1.toUpperCase())

.forEach (line --> {

try {

Files.write(Paths.get("outputFile\_to\_path"), line.getBytes(), StandardOpenOption.CREATE);

} catch (IOExeption e) {

e.printStackTrace();

}

});

} catch (IOException e) {

e.printStackTrace();

}

You want to obtain the Stream object on reading the file. Which code inserted on line 1 will accomplish this?

A. var lines = Files.lines (Paths.get(INPUT\_FILE\_NAME));

B. Stream lines = Files.readAllLines (Paths.get(INPUT\_FILE\_NAME));

C. var lines = Files.readAllLines (Paths.get(INPUT\_FILE\_NAME));

D. Stream<String> lines = Files.lines (INPUT\_FILE\_NAME);

**Question:-124**

Given:

public class Main {

public static void main(String[] args) {

try (BufferedReader br = new BufferedReader (new InputStreamReader([System.in](http://system.in)));) {

String input = br.readLine();

System.out.println ("Input String was: " + input);

} catch (IOException e) {

e.printStackTrace();

}

}

}

Which is true?

A. System.out is the standard output stream. The stream is open only when System.out is called.

B. [System.in](http://system.in) cannot reassign the other stream.

C. System.out is an instance of [java.io](http://java.io).OutputStream by default.

D. [System.in](http://system.in) is the standard input stream. The stream is already open.

**Question:-125**

Given:

public class Employee {

private String name;

private LocalDate birthday;

// the constructors, getters, and setters methods go here

}

and

List<Employee> roster = new ArrayList<>();

//…

Predicate<Employee> y = (Employee e) -> e.getBirthday()

.isBefore ([IsoChronology.INSTANCE.date](http://isochronology.instance.date) (1989, 1, 1));

Set<String> s1 = roster.stream()

// Line 1

**Which code fragment on line 1 makes the s1 set contain the names of all employees born before January 1, 1989?**

A .collect (Collectors.partitioningBy(y))

.get(true)

.stream()

.map (Employee::getName)

.collect (Collectors.toCollection (TreeSet::new));

B. .collect (Collectors.partitioningBy(y))

.get(true)

.map(Employee::getName)

.collect (Collectors.toSet());

C. .collect (Collectors.partitioningBy (y, Collectors.mapping(

Employee::getName, Collectors.toset())));

D. .collect (Collectors.partitioningBy (y, Collectors.groupingBy (

Employee::getName, Collectors.toCollection (TreeSet::new))));

A. Option A

B. Option B

C. Option C

D. Option D

**Question 126.-**

import java.util.List;

import java.util.function.BinaryOperator;

public class Main {

public static void main(String... args) {

List<Employee> list = List.of(new Employee ("John", 80000.0), new Employee("Scott",90000.0));

double starts = 0.0;

double ratio = 1.0;

BinaryOperator<Double> bo =(a, b)-> a +b ;

double totalSalary = list.stream().map(e -> e.getSalary() \* ratio).reduce (starts, bo);

// line 1

System.out.println("Total salary = " + totalSalary);

}

}

class Employee {

String name;

double salary;

public Employee (String name, double salary) {

this.name = name;

this.salary = salary;

}

public String getName() {

return name;

}

public double getSalary() {

return salary;

}

}

Which statement is equivalent to line 1?

A. double totalSalary = list.stream().map(e -> e.getSalary() \* ratio).reduce (bo).ifPresent (p -> p.doubleValue());

B. double totalSalary = list.stream().mapToDouble(e -> e.getSalary() \* ratio).sum();

C. double totalSalary = list.stream().map(Employee::getSalary \* ratio).reduce (bo).orElse(0.0);

D. double totalSalary = list.stream().mapToDouble(e -> e.getSalary() \* ratio).reduce(starts, bo);

**Question.- 127**

Which interface in the java.util.function package will return a void return type?

A. Supplier

B. Predicate

C. Function

D. Consumer

**Question.- 128**

Given :

Public class MyResource {

Public MyResource() {

}

// Resource methods

}

You want to use the myResource class in a try-with-resources statement. Which change will accomplish this?

A. Extend AutoCloseable and override the close method.

B. Implement AutoCloseable and override the autoClose method.

C. Extend AutoCloseable and override the autoClose method.

D. Implement AutoCloseable and override the close method.

**Q.129**

Given: 

@Target (ElementType.METHOD)

@Retention (RetentionPolicy.RUNTIME)

public @interface AuthorInfo{

String author() default "";

String date();

String[] comments() default{};

}

Which two are correct? (Choose two.)

A. @AuthorInfo(date="1-1-2020", comments ={ null })

public class Hello {

public void func() {}

}

B. public class Hello {

@AuthorInfo (date="1-1-2020. comments="Hello")

public void func() {}

}

C. public class Hello {

@AuthorInfo

public void func() {}

}

D. @AuthorInfo (date="1-1-2020")

public class Hello {

public void func() {}

}

E. public class Hello {

@AuthorInfo(date="1-1-2020", author="Gandhi", comments={ "world" }) public void func () {}

}

A. Option A

B. Option B

C. Option C

D. Option D

**Q130.**

Given:

public class Main {

public static void main(String[] args) {

try {

Path path = Paths.get("/u01/work/filestore.txt");

boolean result = Files.deleteIfExists (path);

if (result) System.out.println(path + "is deleted.");

else System.out.println (path + "is not deleted.");

} catch (IOException e) {

System.out.println("Exception");

}

}

}

Assume the file on path does not exist. What is the result?

A. The compilation fails.

B. /u01/work/filestore.txt is not deleted.

C. Exception

D. /u01/work/filestore.txt is deleted.   
    
    
    
  

**Q131.**

public class Tester {

static class Person implements /\* line 1 \*/ {

private String name;

Person (String name) {

this.name = name; }

/\* line 2 \*/

}

public static void main(String[] args) {

Person[] people = {new Person ("Joe"),

new Person("Jane"),

new Person("John") };

Arrays-sort (people);

for (Person person: people) {

System.out.println (person.name);

}

}

}

You want the code to produce this output:

John

Joe

Jane

Which code fragment should be inserted on line 1 and line 2 to produce the output?

A. Insert Comparator<Person> on line 1.

Insert

public int compare(Person p1, Person p2) {

return p1.name.compare(p2.name);

}

on line 2.

B. Insert Comparator<Person> on line 1.

Insert

public int compareTo(Person person) {

return person.name.compareTo(this.name);

}

on line 2.

C. Insert Comparable<Person> on line 1.

Insert

public int compare(Person p1, Person p2) {

return p1.name.compare(p2.name);

}

on line 2.

D. Insert Comparator<Person> on line 1.

Insert

public int compare(Person person) {

return person.name.compare(this.name);

}

on line 2.

**Question: 132)**

package RelatedWork;

class CustomType<T> {

public int count(T[] anArray, T element) {

int count = 0;

for (T e : anArray) {

if (e.equals(element)) {

count++;

}

}

return count;

}

}

public class Test extends CustomType<Object> {

public static void main(String[] args) {

String[] words = {"banana", "orange", "apple", "lemon"};

Integer[] numbers = {1, 2, 3, 4, 5};

CustomType<Object> type = new CustomType<>();

CustomType<String> stringType = new CustomType<>();

System.out.println(stringType.count(words, "apple")); // Output: 1

System.out.println(type.count(words, "apple")); // Output: 1

System.out.println(type.count(numbers, 3)); // Output: 1

}

}

Question: What is the result?

A. A NullPointerException is thrown at runtime.

B. The compilation fails.

C. 1 Null null

D. 1 1 1

E. A ClassCastException is thrown at runtime.

133)

**Which statement about a functional interface is true?**

A. It must be defined with the public access modifier.

B. It must be annotated with @FunctionalInterface.

C. It is declared with a single abstract method.

D. It is declared with a single default method.

E. It cannot have any private methods and static methods.

**Question: 134)**

public class Main {

public static void main(String[] args) {

try (BufferedReader in = new BufferedReader(new InputStreamReader(System.in))) {

System.out.print("Input: ");

String input = in.readLine();

System.out.println("Echo: " + input);

} catch (IOException e) {

e.printStackTrace();

}

}

}

And the command:

java Main Helloworld

What is the result ?

A. Input: Echo:

B. Input: Helloworld Echo: Helloworld

C. Input:

Then block until any input comes from System.in.

D. Input:

Echo: Helloworld

E. A NullPointerException is thrown at run time.

**Question: 135**

Given :-

public class X {

}

and

public final class Y extends X {

}

**What is the result of compiling these two classes?**

A. The compilation fails because there is no zero args constructor defined in class X.

B. The compilation fails because either class X or class Y needs to implement the toString() method.

C. The compilation fails because a final class cannot extend another class.

D. The compilation succeeds.

**Question: 136**

Which code is correct?

A. Runnable r = “Message” −> System.out.println();

B. Runnable r = () −> System.out::print;

C. Runnable r = () -> {System.out.println(“Message”);};

D. Runnable r = −> System.out.println(“Message”);

E. Runnable r = {System.out.println(“Message”)};

**Question: 137**

Given :-

public class FunctionalInterfaceTest {

public static void main(String[] args) {

List fruits = Arrays.asList("apple","orange","banana");

Consumer<String> c = System.out::print;

Consumer<String> output = c.andThen(x -> System.out.println(":" + x.toUpperCase()));

fruits.forEach(output);

}

}

What is the output?

A. :APPLE:ORANGE:BANANA appleorangebanana

B. :APPLE:ORANGE:BANANA

C. APPLE:apple ORANGE:orange BANANA:banana

D. appleorangebanana :APPLE:ORANGE:BANANA

E. apple:APPLE orange:ORANGE banana:BANANA

**Question: 138**

public class Test {

public static void doThings() throws GeneralException {

try {

throw new RuntimeException("Someting happened");

} catch (Exception e) {

throw new SpecificException(e.getMessage());

}

}

public static void main(String args[]) {

try {

Test.*doThings*();

} catch (Exception e) {

System.*out*.println(e.getMessage());

}

}

}

class GeneralException extends Exception {

public GeneralException(String s) {

super(s);

}

}

class SpecificException extends GeneralException/\* line 2 \*/ {

public SpecificException (String s) { super(s); }

}

**Which option should you choose to enable the code to print Something happened?**

A. Add extends GeneralException on line 1. Add extends Exception on line 2.

B. Add extends SpecificException on line 1. Add extends GeneralException on line 2.

C. Add extends Exception on line 1. Add extends Exception on line 2.

D. Add extends Exception on line 1. Add extends GeneralException on line 2.

**Q139.**

List<Reader> dataFiles = new ArrayList<>() ;

File indexFile = new File ("MyIndex.idx");

try (BufferedReader indexReader =

new BufferedReader (new FileReader (indexFile) ) ) {

for (String file = indexReader.readbine (); file != null;

file = indexReader. readLine () ) {

BufferedReader dataReader = new BufferedReader (

new FileReader (new File (file) )); // Line 1

dataFiles.add (dataReader) ; // Line 2

processData (dataReader) ; // Line 3

}

catch (IOException ex)

}

finally {

for (Reader r : dataFiles) {

try {

r.close () ;

} catch (IOException ex) (

} // Line 4

}

}

What will secure this code from a potential Denial of Service condition?

A. After Line 4, add indexReader.close().

B. On Line 3, enclose processData(dataReader) with try with resources.

C. After Line 3, add dataReader.close().

D. On Line 1, use try with resources when opening each dataReader.

E. Before Line 1, check the size of dataFiles to make sure it does not exceed a threshold.

**QUESTION 140 :-**

A company has an existing sales application using a Java 8 jar file containing packages:

com.company.customer;

com.company.customer.orders;

com.company.customer.info;

com.company.sales;

com.company.sales.leads;

com.company.sales.closed;

com.company.orders;

com.company.orders.pending;

com.company.orders.shipped.

To modularize this jar file into three modules, customer, sales, and orders, which module-info.java would be correct?

A)

module com.company.customer {

opens com.company.customer;

}

module com.company.sales {

opens com.company.sales;

}

module com.company.orders {

opens com.company.orders;

}

B)

module com.company.customer {

exports com.company.customer;

}

module com.company.sales{

exports com.company.sales;

}

module com.company.orders{

exports com.company.orders;

}

C)

module com.company.customer {

requires com.company.customer;

}

module com.company.sales{

requires com.company.sales;

}

module com.company.orders {

requires com.company.orders;

}

D)

module com.company.customer {

provides com.company.customer;

}

module com.company.sales{

provides com.company.sales;

}

module com.company.orders

provides com.company.orders;

}

A. Option A

B. Option B

C. Option C

D. Option D

**QUESTION 141 :-**

Given :-

String originalPath = "data\\projects\\a-project\\..\\..\\another-project";

Path path = Paths.get(originalPath);

System.out.print(path.normalize());

What is the result?

A. data\another-project

B. data\projects\a-project\another-project

C. data\\projects\\a-project\\..\\..\\another-project

D. data\projects\a-project\..\..\another-project

**Question: 142**

Given:

package com.lti.dump;

import java.util.function.Consumer;

public class Dump142 {

public static void main(String[] args) {

Consumer consumer =msg -> System.*out*::print; //line 1

consumer.accept("Hello Lambda !");

}

}

Which code should be inserted on line 1 for a successful compilation?

A. Consumer consumer = msg -> { return System.out.print(msg); };

B. Consumer consumer = var arg -> (System.out.print(arg);};

C. Consumer consumer = (String args) -> System.out.print(args);

D. Consumer consumer = System.out::print;

**Answer D**

**Question: 143**

Given:   
 package com.lti.dump;

import java.util.stream.IntStream;

import java.util.stream.Stream;

public class Main {

public static void main(String[] args) {

int arr[][] = {{5, 10}, {8, 12}, {9, 3}};

long count = Stream.*of*(arr)

.flatMapToInt(IntStream::*of*)

.map(n -> n + 1)

.filter(n -> (n % 2 == 0))

.peek(System.*out*::print)

.count();

System.*out*.println(" " + count);

}

}

What is the result?

Α. 6910 3

Β. 10126 3

C. 3

D. 6104 3

**Answer D**

**Question: 144** Which is a proper JDBC URL?   
    
 A.jdbe.mysql.com://localhost:3306/database   
 B.http://localhost.mysql.com:3306/database   
    
 C.http://localhost mysql.jdbc:3306/database   
    
 D.jdbc:mysql://localhost:3306/database   
 **Answer: D   
    
 Reference:** [**https://vladmihalcea.com/jdbc-driver-connection-url-strings/**](https://vladmihalcea.com/jdbc-driver-connection-url-strings/)

**Question: 145**

package com.ltim.question145;

import java.io.IOException;

import java.io.ObjectInputStream;

import java.io.Serializable;

import java.time.LocalDateTime;

public class SerializedMessage implements Serializable {

String message;

LocalDateTime createdTime;

transient LocalDateTime updatedDateTime;

SerializedMessage (String message) {

this.message=message;

this.createdTime=LocalDateTime.*now*();

}

private void readObject (ObjectInputStream in) {

try {

in.defaultReadObject();

this.updatedDateTime = LocalDateTime.*now*();

}

catch (IOException | ClassNotFoundException e) {

e.printStackTrace();

}

}

}

When is the readObject method called?

A. before this object is deserialized.

B. after this object is deserialized.

C. before this object Is serialized.

D. The method is never called.

E. after this object is serialized.

Answer: A.

**Question: 146** Given:   
 1. void insertionSort(int values[]) {    
 2. int n = values.length;    
 3. for (int j = 1; j < n; j++) {    
 4. int tmp = values[j];    
 5. int i = j - 1;    
 6. while ((i > -1) && (values[i] > tmp)) {    
 7. values[i + 1] = values[i];    
 8. i--;    
 9. }    
 10. values[i + 1] = tmp;    
 11. }    
 12. }   
   
 After which line can we insert assert i < 0 || values[i] <= values[i + 1]; to verify that the values array is partially sorted?   
   
A. after line 8   
   
 B. after line 6   
   
 C. after line 5   
   
 D. after line 10

   
 **Answer: A**

**static void insertionSort(int values[]) {**

**int n = values.length;**

**for (int j = 1; j < n; j++) {**

**int tmp = values[j];**

**int i = j - 1;**

**while ((i > -1) && (values[i] > tmp)) {**

**values[i + 1] = values[i];**

**i--;**

**assert i < 0 || values[i] <= values[i + 1];**

**}**

**values[i + 1] = tmp;**

**}**

**}**

**Question: 147**

public class WhatIsTheOutput {

public static void main(String[] args) {

List<String> list1 = new ArrayList<>();

list1.add("A");

list1.add("B");

List list2 = List.*copyOf*(list1);

list2.add("C");

List<List<String>> list3 = List.*of*(list1, list2);

System.*out*.println(list3);

}

}

What is the result?

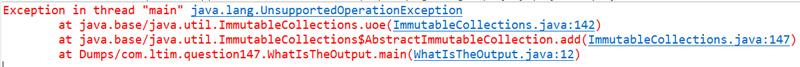
A. [[A, B],[A, B]]

B. An exception is thrown at run time.

C. [[A, B], [A, B, C]]

D. [[A, B, C], [A, B, C]]

**Answer: B**



QUESTION 148 :-

Given:-

1. public class Secret {

2. String [] names;

3. public Secret (String [] names) {

4. this.names = names;

5. }

6. public String [] getNames () {

7. return names;

8. }

9. }

Which three actions implement Java SE security guidelines? (Choose three.)

A. Change line 7 to return names.clone();.

B. Change line 4 to this.names = names.clone();.

C. Change the getNames() method name to get$Names().

D. Change line 6 to public synchronized String[] getNames() {.

E. Change line 2 to private final String[] names ;.

F. Change line 3 to private Secret(String[] names) {.

G. Change line 2 to protected volatile String[] names ;.

**Q149.)**

Integer[] intArray = {2, 1, 3, 4, 5};

List<Integer> list = new ArrayList<>(Arrays.asList(intArray));

list.parallelStream()

.forEach(e -> System.out.print(e + " "));

Which two are correct? (Choose two.)

A. The output will be exactly 2 1 3 4 5.

B. The program prints 1 4 2 3 5, but the order is unpredictable.

C. Replacing forEach() with forEachOrdered(), the program prints 2 1 3 4 5, but the order is

unpredictable.

D. Replacing forEach() with forEachOrdered(), the program prints 1 2 3 4 5.

E. Replacing forEach() with forEachOrdered(), the program prints 2 1 3 4 5.

**Q150.)**

Question: 150

Given the contents:

MessageBundle.properties file:

message=Hello

MessageBundle\_en.properties file:

message=Hello (en)

MessageBundle\_US.properties file:

message=Hello (US)

MessageBundle\_en\_US.properties file:

message=Hello (en\_US)

MessageBundle\_fr\_FR.properties file:

message=Bonjour

and the code fragment:

Locale.setDefault(Locale.FRANCE);

Locale currentLocale = new Locale.Builder().setLanguage("en").build();

ResourceBundle messages = ResourceBundle.getBundle("MessageBundle", currentLocale);

System.out. println(messages.getString("message"));

Which file will display the content on executing the code fragment?

A. MessageBundle\_en\_US.properties

B. MessageBundle\_en.properties

C. MessageBundle\_fr\_FR.properties

D. MessageBundle\_US.properties

E. MessageBundle.properties

**Q151.)**

**var** numbers = List.of(1,2,3,4,5,6,7,8,9,10);

Optional<Integer> result = numbers.stream().filter(x -> x % 3 != 0).reduce((i, j)

-> i + j);

result.ifPresent(System.***out***::print); // line 1

Which is true about line 1?

A. If the value is not present, a NoSuchElementException is thrown at run time.

B. It always executes the System.out :: print statement.

C. If the value is not present, a NullPointerException is thrown at run time.

D. If the value is not present, nothing is done.

q152

List<String> list1 = new LinkedList<String> () ;  
Set<String> hs1 = new HashSet<String>();  
String[] v = {"a", "b", "c", "b", "a"};  
for (String s: v) {  
list1.add(s);  
hs1.add(s);  
System. out.print (hsl. size () + " " + list1. size () + " ") ;  
HashSet hs2 = new HashSet (list1) ;  
LinkedList list2 = new LinkedList (hs1) ;  
System.out.print (hs2.size () + " " + list2. size () ) ;

What is the result?  
**A. 3533**  
B. 3333  
C. 3535  
D. 5533

**Question 153**

public class Main {

static class Student { //line 1

String classname;

Student(String classname) { //line 2

this.classname = classname;

}

}

public static void main(String[] args) {

var student = new Student("Biology"); //line 3

}

}

Which two independent changes will make the Main class compile? (Choose two.)

A. Move the entire Student class declaration to a separate Java file, Student.java.

B. Change line 2 to public Student(String classname).

C. Change line 1 to public class Student {.

D. Change line 3 to Student student = new Student(“Biology”);.

E. Change line 1 to static class Student {.

Answer: **A,E**

**A = This makes Student a top-level class.**

Since top-level classes have public or default access, it becomes independent of the Main class.

E = By making the Student class static, you enable it to be instantiated from the main method without needing an instance of the enclosing Main class.

**Question 154:**

import java.util.ArrayList;

import java.util.List;

public class Employee {

private String name;

private String locality;

/\* Constructors, getter and setters \*/

public static void main(String[] args) {

List<Employee> roster = new ArrayList<>();

long empCount = roster.stream()

.map(Employee::getLocality)

.distinct()

.count();

System.out.print(empCount);

}

}

Which code, when inserted on line 10, prints the number of unique localities from the roster list?

A. .map(Employee::getLocality)

.distinct()

.count();

B. .map(e −> e.getLocality())

.count();

C. .map(e −> e.getLocality())

.collect(Collectors.toSet())

.count();

D. .filter(Employee::getLocality)

.distinct()

.count();

Answer = **A**

Explanation:

map(Employee::getLocality): Transforms the Employee objects to their respective locality values.

distinct(): Ensures that only unique localities are considered.

count(): Counts the number of unique localities.

**Question 155**

Given the Person class with age and name along with getter and setter methods, and this code fragment:

List<Person> persons sons = new ArrayList (List.of (new Person (44, "Tom"), new Person (40,"Aman"), new Person (40, "Peter")));

persons.sort (Comparator.comparing ((Person::getAge))

.thenComparing (Person::getName)

.reversed());

persons.forEach (p1->System.out.print(" "+p1.getName()));

What will be the result?

A. Aman Tom Peter

B. Tom Aman Peter

C. Aman Peter Tom

D. Tom Peter Aman

Answer = D. Tom Peter Aman

Explanation:

The provided code snippet defines an Employee class with age and name attributes, and sorts a list of Employee instances by age and name in descending order using a comparator. The sorted list is then printed, outputting the names in the order: Tom, Peter, Aman.

q156

Which three guidelines are used to protect confidential information? (Choose three.)  
**A. Limit access to objects holding confidential information.**  
**B. Clearly identify and label confidential information.**  
C. Manage confidential and other information uniformly.  
D. Transparently handle information to improve diagnostics.  
E. Treat user input as normal information.  
F. Validate input before storing confidential information.  
**G. Encapsulate confidential information.**

q157

Given:  
public static void main (String[] args) {  
try (Reader reader1 = new FileReader ("File1.txt");  
Reader reader2 = new FileReader ("File2.txt");  
Reader reader3 = new FileReader ("File3\_txt") ) {  
} catch (IOException ex) {  
Logger.getLogger (Main. class.getName () ) .log (Level.SEVERE, null, ex) ;  
}  
// Line 1  
System. out.println ("Done") ;  
}  
When run and all three files exist, what is the state of each reader on Line 1?  
A. All three readers are still open.  
**B. All three readers have been closed.**  
C. The compilation fails.  
D. Only reader1 has been closed.

q158

Given the code fragment:

var pool = Executors.newFixedThreadPool(5);

Future outcome = pool.submit(() −> 1);

Which type of lambda expression is passed into submit()?

A. java.lang.Runnable

B. java.util.function.Predicate

C. java.util.function.Function

D. **java.util.concurrent.Callable**

q159

Which two statements set the default locale used for formatting numbers, currency, and percentages? (Choose two.)

A. Locale.setDefault(Locale.Category.FORMAT, “zh-CN”);

**B.Locale.setDefault(Locale.Category.FORMAT,Locale.CANADA\_FRENCH);**

**C.Locale.setDefault(Locale.SIMPLIFIED\_CHINESE);**

D. Locale.setDefault(“en\_CA”);

E. Locale.setDefault(“es”, Locale.US);

**Question: 160**

public class Confidential implements Serializable{

private String data;   
 public Confidential (String data) {   
 this.data = data;

}

}

Which two are secure serialization of these objects? (Choose two.)   
 A. Define the serialPersistentFields array field.   
 B. Declare fields transient.   
 C. Implement only readResolve to replace the instance with a serial proxy and not writeReplace.   
 D. Make the class abstract.   
 E. Implement only writeReplace to replace the instance with a serial proxy and not readResolve.

q.no 160 ans == B,E

**Question: 161**

A bookstore's sales are represented by a list of Sale objects populated with the name of the customer and the books they purchased.

public class Sale {    
 private String customer;    
 private List<Book> items;    
 // constructor, setters and getters not shown    
 }    
 public class Book {    
 private String name;   
 private double price;    
 // constructor, setters and getters not shown    
 }    
 **Given a list of Sale objects, tList, which code fragment creates a list of total sales for each customer in ascending order?**

A. List<String> totalByUser=tList.stream()   
 .collect (flatMapping (t -> t.getItems().stream(), groupingBy (Sale::getCustomer,   
 summingDouble (Book::getPrice))))   
 .entrySet().stream()   
 .sorted (Comparator.comparing (Entry::getValue))   
 .collect (mapping (e -> e.getKey() + ":" + e.getValue(), toList()));

B. List<String> totalByUser=tList.stream()   
 .collect (groupingBy (Sale::getCustomer,   
 flatMapping (t->t.getItems().stream(),   
 summing Double (Book::getPrice))))   
 .sorted (Comparator. comparing (Entry::getValue))   
 .collect (mapping (e -> e.getKey() + ":" + e.getValue(), toList()));

C. List<String> totalByUser=tList.stream() .collect (groupingBy (Sale::getCustomer,   
 flatMapping (t -> t.getItems().stream(), summing Double (Book::getPrice))))   
 .entrySet().stream()   
 .sorted (Comparator.comparing (Entry::getValue))   
 .collect (mapping (e -> e.getKey() + ":" + e.getValue(), toList()));

D. List<String> totalByUser=tList.stream()   
 .collect (flatMapping (t -> t.getItems().stream(), groupingBy (Sale::getCustomer,   
 summing Double (Book::getPrice))))   
 .sorted (Comparator.comparing (Entry::getValue))   
 .collect (mapping (e -> e.getKey() + ":" + e.getValue(), toList()));

q.no 161 ans == C

**Question: 162**

Which two safely validate inputs? (Choose two.)    
 A. Delegate numeric range checking of values to the database.    
 B. Accept only valid characters and input values.    
 C. Use trusted domain-specific libraries to validate inputs.    
 D. Assume inputs have already been validated. E. Modify the input values, as needed, to pass validation.

**Question: 163.**

Consider this method declaration:

*void setSessionUser(Connection conn, String user) throws SQLException {*

*String sql = "SET SESSION my\_user = ?";*

*try (PreparedStatement pstmt = conn.prepareStatement(sql)) {*

*pstmt.setString(1, user);*

*pstmt.executeUpdate();*

*}*

*}*   
   
 A) “SET SESSION AUTHORIZATION “ + user

B) “SET SESSION AUTHORIZATION “ + stmt.enquoteIdentifier(user)

**Is A or B the correct replacement for <EXPRESSION> and why?**

A. A, because it sends exactly the value of user provided by the calling code.

B. B, because enquoting values provided by the calling code prevents SQL injection.

C. A and B are functionally equivalent.

D. A, because it is unnecessary to enclose identifiers in quotes.

E. B, because all values provided by the calling code should be enquoted.

*The correct replacement for <EXPRESSION> is*

***B: "SET SESSION AUTHORIZATION " + stmt.enquoteIdentifier(user).***

*Explanation:*

*B is correct because using stmt.enquoteIdentifier(user) helps prevent SQL injection by ensuring that the user value is properly quoted and escaped. This method provides a safe way to include user-provided values in SQL statements*

**Question: 164.** Which three annotation uses are valid? (Choose three.)

A. Function<String, String> func = (@NonNull x) −> x.toUpperCase();

B. var v = “Hello” + (@Interned) “World”

C. Function<String, String> func = (var @NonNull x) −> x.toUpperCase();

D. Function<String, String> func = (@NonNull var x) −> x.toUpperCase();

E. var myString = (@NonNull String) str; F. var obj = new @Interned MyObject();

F. var obj = new @Interned MyObject();   
   
SOLUTION : A,C,F

EXPLAINATION

A. Function<String, String> func = (@NonNull x) −> x.toUpperCase();

* Here, @NonNull is applied to the parameter x in a lambda expression, indicating that x should not be null.

B. var v = "Hello" + (@Interned) "World"

* This is not a valid use of an annotation. Annotations are not allowed to be placed within expressions like this.

C. Function<String, String> func = (var @NonNull x) −> x.toUpperCase();

* In this option, @NonNull is applied to x, which is declared with var in a lambda expression. This is valid and means x should not be null.

D. Function<String, String> func = (@NonNull var x) −> x.toUpperCase();

* Similarly, @NonNull is applied to x, declared with var, in a lambda expression. This is another correct way to annotate that x should not be null.

E. var myString = (@NonNull String) str;

* This is invalid. Annotations cannot be used in this context for a local variable declaration.

F. var obj = new @Interned MyObject();

* This is a valid use of @Interned annotation, which is applied to the type MyObject in the new expression.

**Question: 165.**

Which two statements correctly describe capabilities of interfaces and abstract classes? (Choose two.)

A. Interfaces cannot have protected methods but abstract classes can.

B. Both interfaces and abstract classes can have final methods.

C. Interfaces cannot have instance fields but abstract classes can.

D. Interfaces cannot have static methods but abstract classes can.

E. Interfaces cannot have methods with bodies but abstract classes can.

SOLUTION: A,C

A. Interfaces cannot have protected methods but abstract classes can.

* Interfaces can have public and default methods, but not protected methods. Abstract classes can have methods with any visibility, including protected.

C. Interfaces cannot have instance fields but abstract classes can.

* Interfaces cannot have instance fields; they can only have constants (static final fields). Abstract classes, however, can have instance fields.

Here's a brief explanation of the other options:

B. Both interfaces and abstract classes can have final methods.

* This is incorrect. Interfaces cannot have final methods, while abstract classes can.

D. Interfaces cannot have static methods but abstract classes can.

* This is incorrect. Interfaces can have static methods since Java 8, and abstract classes can also have static methods.

E. Interfaces cannot have methods with bodies but abstract classes can.

* This is incorrect. Interfaces can have default and static methods with bodies since Java 8.

Question no : 166   
----------------------

public static void main(String[] args) {

final List<String> fruits =   
 List.of("Orange", "Apple", "Lemmon", "Raspberry");   
 final List<String> types =   
 List.of("Juice", "Pie", "Ice", "Tart");   
 final var stream =   
 IntStream.range(0, Math.min(fruits.size(), types.size()))   
 .mapToObj(i -> fruits.get(i) + " " + types.get(i) );   
 stream.forEach(System.out::println);   
}

What is the result?

A. Orange Juice

B. The compilation fails

C. Orange Juice Apple Pie Lemmon Ice Raspberry Tart

D. The print prints nothing.

Question no : 167   
--------------------

Which interface in the java.util.function package can return a primitive type?   
   
A. ToDoubleFunction

B. Supplier

C. BiFunction

D. LongConsumer

Question no : 168   
-------------------

enum QUALITY {   
 A(100), B(75), C(50);   
 int percent;   
 private QUALITY(int percent) {   
 this.percent = percent;   
 }   
}

void checkQuality(QUALITY q) {   
 switch (q) {   
 case A: // Insert code here   
 System.out.println("Best");   
 break;   
 default:   
 System.out.println("Not best");   
 break;   
 }   
}

// Example usage:   
checkQuality(QUALITY.A);

Which code fragment can be inserted into the switch statement to print Best?

A. QUALITY.A.ValueOf()   
B. A   
C. A.toString()   
D. QUALITY.A

Question no : 169  
--------------------

LocalDate d1 = LocalDate.of(1997,2,7);

DateTimeFormatter dtf = DateTimeFormatter.ofPattern( /\*insert code here\*/ ); System.out.println(dtf.format (d1));

Which pattern formats the date as Friday 7th of February 1997?

A. “eeee dd+”th of”+ MMM yyyy”

B. “eeee dd'th of' MMM yyyy”

C. “eeee d+”th of”+ MMMM yyyy”

D. “eeee d’th of’ MMMM yyyy”

**Question 170:**

Which two statements independently compile? (Choose two.)

Which two statments independently compile?

1. **List<? super Short> list = new ArrayList<Number>();**
2. List<? super Number> list = new ArrayList<Integer>();
3. List <? extends Number> list = new ArrayList<Byte>();
4. List<? extends Number> list = new ArrayList<Object
5. List<? extends Float> list = new ArrayList<Double>();

Answer : A, C

Explanation: A. This statement is valid. ? super Short means any superclass of Short, and Number is a superclass of Short.

C. This statement is valid. ? extends Number means any subclass of Number, and Byte is a subclass of Number.

**Question 171:**

public class Tryout {

public static void main(String[] args) {

enum Letter{

ALPHA(100) , BETA(200) , GAMMA(300);

int v;

Letter(int v) {this.v = v;

}

/Insert this code here/

}

}

}

What code should be written at line 5 for this code to print 200?

A. public String toString() { return String.valueOf(ALPHA.v); }

B. public String toString() { return String.valueOf(Letter.values()[1]); }

C. public String toString() { return String.valueOf(v); }

D. String toString() { return “200”; }

Answer: C

Explanation: To print the value 200, we need to override the toString() method in the Letter enum to return the value of the v field for the specific enum constant.

**Question 172**:

Given the code fragment:

Path source = Paths.get(“/repo/a/a.txt”);

Path destination = Paths.get(“/repo”);

Files.move(source, destination);// line 1

Files.delete (source); // line 2

Assuming the source file and destination folder exist, what Is the result?

A. A java.nio.file.FileAlreadyExistsException is thrown on line 1.

B. A java.nio.file.NoSuchFileException is thrown on line 2.

C. A copy of /repo/a/a.txt is moved to the /repo directory and /repo/a/a.txt is deleted.

D. a.txt is renamed repo.

Answer: A   
 Explanation: “Files.move(source, destination)” attempts to move “/repo/a/a.txt” into /repo, which throws a FileAlreadyExistsException because /repo is a directory, not a file to move into. Thus, Files.delete(source) is never reached.

**Question No.- 173**

Given:

List<String> longlist = List.of(“Hello”,”World”,”Beat”);

List<String> shortlist = new ArrayList<>();

Which code fragment correctly forms a short list of words containing the letter “e”?

1. longList.stream()

.filter(w-> w.indexOf('e') != -1)

.parallel()

.forEach (w-> shortList.add(w));

B. longList.parallelStream()

  .filter (w -> w.indexOf('e') != -1)

.forEach (w -> shortList.add(w));

1. shortList = longList.stream()

.filter (w -> w.indexOf('e') != -1)

.parallel ()

.collect (Collectors.toList());

1. longList.stream()

.filter (w -> w.indexOf('e') != -1)

.parallel()

.collect (shortlist);

A. Option A

B. Option B

C. Option C

D. Option D

**Question No.- 174**

Given:

jdeps -jdkinternals

C:\workspace4\SimpleSecurity\jar\classes.jar

Which describes the expected output?

1. jdeps lists the module dependencies and the package names of all referenced JDK internal APIs. If any are found, the suggested replacements are output in the console.
2. jdeps outputs an error message that the -jdkinternals option requires either the -summary or the verbose options to output to the console.
3. The -jdkinternals option analyzes all classes in the .jar and prints all class-level dependencies.
4. The -jdkinternals option analyzes all classes in the .jar for class-level dependencies on JDK internal APIs. If any are found, the results with suggested replacements are output in the console.

**Question No.- 175**

Given:

public class Main {

 public static void main(String[] args) {

 List l = new ArrayList();

 l.add("hello");

l.add("world");

print(l);

}

private static void print (List<String>… args) {

  for (List<String> str: args) {

  System.out.println(str);

 }

}

 }

Which annotation should be used to remove warnings from compilation?

A. @SuppressWarnings on the main and print methods

B. @SuppressWarnings(“unchecked”) on main and @SafeVarargs on the print method C. @SuppressWarnings(“rawtypes”) on main and @SafeVarargs on the print method

D. @SuppressWarnings(“all”) on the main and print methods

**Question: 176**

Given:

public class Employee {

private String name;

private String neighborhood;

private LocalDate birthday;

private int salary:

}

and

List<Employee> roster = new ArrayList<>(...);

Map> m = [roster.stream](http://roster.stream)()

// Line 1

Which code fragment line 1 makes the m map contain the employee with the highest salary for each neighborhood?

A)

.collect (Collectors.maxBy (Employee::getSalary,

Collectors.groupingBy (Comparator.comparing (e -> e.getNeighborhood()))));

B)

.collect (Collectors.groupingBy (Employee::getNeighborhood, Collectors.maxBy (Comparator.comparing (Employee::getSalary))));

C).collect (Collectors.groupingBy(e -> e.getNeighborhood(), Collectors.maxBy((x, y) -> y.getSalary() x.getSalary())));

D)

.collect (Collectors.maxBy((x, y) -> y.getSalary() x.getSalary(), Collectors.groupingBy (Employee::getNeighborhood)));

A. Option A

B. Option B

C. Option C

D. Option D

**Question No.- 177**

Given TripleThis.iava:

 6. import java.util.function.\*;

 7. public class TripleThis {

 8. public static void main(String[] args) {

 9. Function tripler = x -> { return (Integer) x \* 3; };

 10. TripleThis.printValue(tripler, 4);

 11. }

 12. public static <T> void printValue (Function f, T num) {

 13.  System.out.println(f.apply(num));

 14. }

 15. }

Compiling TripleThis.java gives this compiler warning:

Note: TripleThis.java uses unchecked or unsafe operations.

Which two replacements done together remove this compiler warning?

A. Replace line 9 with function tripler = x-> - { return (Integer) x \* 3 ; }.

B. Replace line 12 with public static void printValue function f, int num) {.

C. Replace line 12 with public static int printValue function, f, T num {.

D. Replace line 12 with public static void printValue (Function f, T num ) {,

E. Replace line 9 with function, Integer> = x -> { return (integer) x \* 3; }.

**Question: 178**

Given:

MessagesBundle.properties file:   
 username = Username   
 password = Password   
   
 and   
   
 MessagesBundle\_fr\_FR.properties file:   
 username = Utilisateur   
 password = Le passe   
   
 and   
   
 MessagesBundle\_ru.properties file:   
 usernane = Пользователь   
 password = Пароль   
   
 and the code fragment:   
   
 public class Test{   
   
 public static void main(String[] args){   
 Locale.setDefault (Locale. FRANCE);   
 ResourceBundle mg = ResourceBundle.getBundle("MessageBundle", new locale("ru"));    
 System.out.println("User " + msg.getString("username"));   
 System.out.println("User " + msg.getString("password"));    
 }   
 }   
   
 What is the result?   
   
 A.User = Пользователь   
 Pass = Пароль   
   
 B.The compilation falls.   
   
 C. A MissingResourceException is thrown at runtime.   
   
 D.User = Utilisateur   
 Pass = Le passe   
   
 E.User Username   
   
 **A. Option A   
   
 B. Option B   
   
 C. Option C   
   
 D. Option D   
   
 E. Option E**

Answer: A. option A

**Question: 179**

given the code fragment:

**public** **class** Main {

**public** **static** **void** main(String[] args) {

// Create a mutable ArrayList from an immutable list

List<String> list1 = **new** ArrayList<>(List.*of*("Plane", "Automobile", "Motorcycle"));

// Create another mutable ArrayList from an immutable copy

List<String> list2 = **new** ArrayList<>(List.*copyOf*(list1));

// Sorting both lists

list1.sort((item1, item2) -> item1.compareTo(item2));

list2.sort((item1, item2) -> item1.compareTo(item2));

// Checking equality

System.***out***.println(list1.equals(list2));

}

}

What is the result?

A. A java.lang, Unsupported OperationException is thrown.

B. True

C. False

D. A java.lang.NullPointerException is thrown.

**Question: 180**

Given:

public final class X {   
 private String name;    
 public String getName() {    
 return name;   
 }   
   
 public void setName(String name) {    
 this.name = name;   
 }   
   
 public String toString() {    
 return getName();   
 }

}   
   
 public class Y extends X {    
 public Y(String name) {   
 super();    
 setName(name);    
 }   
   
 public static void main(String... args) {   
 Y y = new Y("88");   
 System.out.println(y);   
 }   
 }

**What is the result?**

A. The compilation fails.

B.Y@<<hashcode>>

C. Null

D. HH

Answer: A. the compilation fails.

**Question: 181**

**public class Employee {**

**private String name;**

**private String neighborhood;**

**// the constructors, setters, and getter methods go here**

**}**

**and**

**List<Employee> roster = List.of(new Employee("John", "West town"),**

**new Employee("Ray", "South town"),**

**new Employee("Tom"),**

**new Employee("Kenny", "West town") );**

**A) Map<String, List<Employee>> e3 =**

**roster.stream()**

**.collect (Collectors.groupingBy( e -> Optional.ofNullable (e.getNeighborhood()) .get()**

**));**

**B) Map<String, List<Employee>> e3 =**

**roster.stream()**

**.collect (Collectors.groupingBy(**

**e->Optional.ofNullable(e.getNeighborhood())**

**.get()**

**));**

**C) Map<String, List<Employee>> e1 =**

**roster.stream()**

**.collect(Collectors.groupingBy(**

**(e -> Optional.ofNullable(e.getNeighborhood()))**

**));**

**D) Map<Object, List<Employee>> e2 =**

**roster.stream()**

**.collect (Collectors.groupingBy(**

**e -> Optional.ofNullable (e.getNeighborhood())**

**));**

**A. Option A**

**B. Option B**

**C. Option C**

**D. Option D**

Question: 182

code:

public class Test {   
 private final int x=1;   
 static final int y;   
 public Test() {   
 System.out.print(x);   
 System.out.print(y);   
 }   
 public static void main(String[] args) {   
 new Test();   
 }   
 }

What is the result?   
 A. 1   
 B. The compilation fails at line 10   
 C. 10   
 D. The compilation fails at line 16.   
 E. The compilation fails at line 13.

Question: 183

Code:

public class Electronics extends Product {    
 public Electronics(double price) {   
 super(price);   
 }   
 }   
 and

public class Plushy extends Product {    
 public Plushy(double price) {    
 super(price);   
 }   
 }

and

public class PriceChecker<T extends Product> {   
 private T product;   
    
 public PriceChecker(T product) {   
 this.product = product;   
 }   
    
 public boolean isPriceEqual(....Line1....) {   
 return this.product.getPrice() == prod.product.getPrice();   
 }   
 public static void main(String... args) {   
 PriceChecker<Electronics> a = new PriceChecker<>(new Electronics(1000.00));    
 PriceChecker<Plushy> b = new PriceChecker<>(new Plushy(1.0));    
 System.out.println(a.isPriceEqual(b));   
 }   
 }

What change will cause the code to compile successfully?   
 A. Insert PriceChecker <?> prod on line 1.   
 B. Insert PriceChecker <> prod on line 1.   
 C. Insert PriceChecker <Electronics> prod on line 1.   
 D. Insert PriceChecker <Plushy extends Products> prod on line 1.

Question : 184

public class Main {   
 private String[] strings = {   
 "ABCDEFGHIJKLMNOPQRSTUVWXYZ",   
 "abcdefghijklmnopqrstuvwxrzyz", // Corrected typo in 'abcdefghijklmnopgrstuvwxyz'   
 "0123456789"   
 };

public void write(String filename) {   
 //line1   
    
 for (String str : strings) {   
 ByteBuffer buffer = ByteBuffer.wrap(str.getBytes());   
 fileChannel.write(buffer);   
 }   
 } catch (IOException e) {   
 e.printStackTrace();   
 }   
 }

public static void main(String[] args) {   
 Main test = new Main();   
 test.write("file\_to\_path");   
 }   
 }

You want to obtain the Filechannel object on line 1.   
 Which code fragment will accomplish this?

**OPTION A**. try (FileChannel fineChannel = Channels.newChannel (new FileOutputStream(filename)); )

**OPTION B**. try (FileChannel fileChannel = new FileOutputStream(filename).getChannel();) {

**OPTION C**. try (FileChannel fileChannel = new FileOutputStream(new FileChannel (filename)) ;) {

**OPTION D**. try (FileChannel fileChannel = new FileChannel (new FileOutputStream (filename))) {

Question 185:

Code:

package com.dumps.question185;

import java.util.Collection;

public class X {

protected void print (Object obj) {

System.out.println(obj);

}

public final void print(Object... objects) {

for (Object object : objects) {

print (object);

}

}

public void print (Collection collection) {

collection.forEach (System.out::println);

}

}

public class Y extends X {

public void print(Object obj) {

System.out.print ("["+ obj + "]");

}

public void print(Object... objects) {

for (Object object : objects) {

System.out.println("["+ object + "]");

}

}

public void print(Collection collection) {

print (collection.toArray());

}

}

Why does this compilation fail?

A. The method Y. print (object) does not call the method super.print (object)

B. The method x. print (object) is not accessible to Y.

C. In method x. print (Collection), system. Out :: prints is an invalid Java identifier.

D. The method print (object) and the method print (object…) are duplicates of each other.

E. The method Y. print (object…) cannot override the final method x.print (object….).

Question 186:

Which method throws an exception for Not-a-Number (NaN) and infinite input values?

A) static float validatel (String s) throws IllegalArgumentException {

return Float.parseFloat(s);

}

B) static float validate3 (String s, float min, float max) throws IllegalArgumentException {

float f = Float.parseFloat(s);

if (!Float.isFinite(f) || f < min || f > max) {

throw new IllegalArgumentException();

}

return f;

}

C) static float validate2 (String s, float min, float max) throws IllegalArgumentException {

float f = Float.parseFloat(s);

if (f < min || f > max) {

throw new IllegalArgumentException();

}

return f;

}

D) static float validate4 (String s, float min, float max) throws IllegalArgumentException {

float f = Float.parseFloat(s);

if (Float.isFinite(f) && f < min && f > max) {

throw new IllegalArgumentException();

}

return f;

}

A. Option A

B. Option B

C. Option C

D. Option D

Question 187:

There is a copyServiceAPI that has the org.copyservice. spi. Copy interface To use this service in a module, which module- info.java would be correct?

A. module CopyConsumer ( requires CopyServiceAΡΙ;

uses org.copyservice.spi.Copy:

}

B. module CopyConsumer (

requires transitive org.copyservice.spi.Copy:

}

C. module CopyConsumer {

requires org.copyservice.spi.Copy:

}

D. module CopyConsumer {

uses CopyServiceAPI;

}

A. Option A

B. Option B

C. Option C

D. Option D

Question 188:

Code:

public class Question188 {

public static void main(String[] args) {

List<Integer> numbers=List.of(2,3,0,8,1,9,5,7,6,4);

int sum=numbers.stream().reduce(0, (n,m)->n+m);//line1

//B.int sum = numbers. parallelStream ( ). reduce (0, (n, m ) -> n + m);

//E.int sum = numbers.stream(). parallel ( ). reduce (0, (n, m) -> n + m);

System.out.println(sum);

}

}

You wants to make the reduction operation parallelized. Which two modifications will accomplish this?

A. Replace line 1 with int sum = numbers. Stream (). Interate (0, a -> a+1. Reduce (0, (n m) -> n+m);

B. Replace line 1with int sum = numbers. parallelStream ( ). reduce (0, (n, m ) -> n + m);

C. Replace line 1 with int sum = numbers. Parallel ( ). Stream ( ). Reduce (0, (n, m ) -> n + m);

D. Replace line 1with int sum = number. Stream ( ) . flatMap (a -> a) .reduce (0, (n, m) -> n +m );

E. Replace line 1with int sum = numbers.stream(). parallel ( ). reduce (0, (n, m) -> n + m);

Question 189:

Code:

public static void main(String[] args) {

String s = "hat at store";

int x = s.indexOf("at");

s.substring(x+3);

x=s.indexOf("at");

System.out.println(s+" "+x);

}

What is the result?

A. An indexOutofBoundsException is thrown at runtime.

B. At once 0

C. Hat at store 4

D. At once 1

E. hat at store 1

Question 190:

package com.ltim.demo;

public class Avatar extends GameObject {

public Object[] move (Number x, Number y) {

System.out.println("Move Character");

return super.move (x.intValue(), y.intValue());

}

public static void main(String... args) {

var character = new Avatar ();

character.move (10.0, 10.0);

character.move (10, 10);

}

}

What is the result?

A)Move GameObject

Move GameObject

B) Move Character

Move GameObject

Move GameObject

C) Move GameObject

D) Move GameObject

Move Character

Move GameObject

A. Option A

B. Option B

C. Option C

D. Option D

Question 191:

Code:

int i = 0;

for(;i<10;i++) {

System.out.print(++i + " ");

}

What is the result?

A.1 3 5 7 9

B.1 3 5 7 9 11

C.2 4 6 8 10

D.2 4 6 8

Question 192:

Code:

A Company has an existing Java app that includes two java 8 jar files,sales-3.10. jar and clients-10.2 jar.

The jar file,sales-8,10 jar reference packages in clients -10.2 jar,but clients-10.2 jar,but clients-10.2 jar does not reference packages in sales-8.10,jar.

They have decided to modularize clients-10.2 jar.

Which module-info. Java file would work for the new library version clients-10.3 jar?

A)

module com.company.clients{

uses com.company.clients;

}

B)

module com.company.clients{

requires com.company.clients;

}

C)

module com.company.clients{

exports com.company.clients.Client;

}

D)

module com.company.clients{

exports com.company.clients;

}

A.Option A

B.Option B

C.Option C

D.Option D

Question 193:

Code:

package com.ocjp.q193;

public class Thing {

private String name;

public Thing(String name) {

this.name = name;

}

public String toString() {

return name;

}

}

package com.ocjp.q193;

public class Tester {

public static void main(String[] args) {

Thing[] things= processThings();

/\* line 1 \*/

for(Thing t: things) {

System.out.println(t);

}

}

public static Thing[] processThings() {

Thing[] things = new Thing[3];

things[0] = new Thing("Hat");

things[1] = new Thing("Rat");

things[2] = things[0];

things[0] = new Thing("Cat");

things[1] = things[2];

return things;

}

}

How many Thing objects are eligible for garabage collection in line 1?

A.3

B.2

C.0

D.1

E.4

Question 194:

Given the Customer table structure:

* ID Number Primary Key
* NAME Text Nullable

Given the code fragment:

12. PreparedStatement stmt = con.prepareStatement("INSERT INTO CUSTOMER VALUES(?,?)");

13. stmt.setInt(1,42);

14. /\* Insert code here \*/

15. int n = stmt.executeUpdate();

Which statement inserted on line 14 sets the NAME column to a NULL value?

A. stmt.setNull(2, java.sql.Types, VARCHAR);

B. stmt.setNull(2 string, class);

C. stmt.setNull(2, null);

D. stmt.setNull(2, java.lang, string);

Question 195:

Code:

class MyPersistenceData {

String str;

private void methodA() {

System.out.println("methodA");

}

}

You want to implement the java.io.Serializable interface for the MyPersistenceData class. Which method should be overridden?

A. The readExternal and writeExternal method

B. The readExternal method

C. The writeExternal method

D. Nothing

Question 196:

Code:

Given:

class ConSuper {

protected ConSuper() {

this(2);

System.out.println("3");

}

protected ConSuper(int a) {

System.out.println(a);

}

}

and

public class ConSub extends ConSuper{

ConSub(){

this(4);

System.out.println("1");

}

ConSub(int a){

System.out.println(a);

}

public static void main(String[] args) {

new ConSub(4);

}

}

What is the result?

A.2134

B.234

C.2341

D.214

Question 197:

Code:

class Item {

public String name;

public int count;

public Item(String name, int count) {

this.name = name;

this.count = count;

}

}

and

import java.util.List;

public class Test{

public static void main(String[] args) {

var items = List.of(new Item("A", -2), new Item("B", 2),

new Item("C", 12), new Item("D", 5), new Item("E", 6));

if (items.stream().anyMatch(i -> i.count < 0)) {

System.out.println("There is an item for which the variable count is below zero.");

}

}

}

You want to examine the items list it contains an item for which the variable count is below zero. Which code fragment at line 1 accomplish this?

A. If (items.stream () .filter (i -> count < 0) . findFirst () ) {

B. If (items.stream () .filter (i -> count < 0) . findAny () ) {

C. If (items.stream () .allmatch (i -> count < 0) < 0) ) {

D. If (items.stream () .anyMatch (i -> i.count < 0) ) {

Question 198:

Code:

public class Plant { }

and

public class Tulip extends Plant { }

and

public class Garden {

private static Plant plant;

public static void main(String[] args) {

plant = new Tulip();

feed(plant);

feed(plant);

}

private static void feed(Plant p) {

if(p instanceof Tulip) {

System.out.println("Take extra care");

}

p = null;

}

}

What is the result ?

A. Take extra care

B. The program prints nothing

C. Take extra care

Tale extra care

D. An exception is thrown at runtime

Question 199:

Code:

import java.util.Arrays;

import java.util.Comparator;

public class City {

public static void main(String[] args) {

String[] towns = {"boston", "paris", "bangkok", "oman"};

Comparator<String> ms = (a, b) -> b.compareTo(a);

Arrays.sort(towns, ms);

System.out.println(Arrays.binarySearch(towns, "oman", ms));

}

}

What is the result ?

A. 2

B. -1

C. 1

D. -3

Question 200:

Code:

public class Test

{

public static void main(String[] args)

{

Consumer<String> c1=arg->System.out.println(arg);

c1.accept("c1 accepted");

Consumer<String> c2=arg->System.out.println(arg);

c2.accept("c2 accepted");

c2.andThen(c1).accept("after then");

c2.accept("c2 accepted again");

}

}

What is the result?

A) c1 accepted

c2 accepted

B) c1 accepted

c2 accepted

after then

c1 accepted

c2 accepted again

C) c1 accepted

c2 accepted

after then

c2 accepted again

D) c1 accepted

c2 accepted

after then

after then

c2 accepted again

Question 201:

Code:

public class Test

{

static Map<String,String> map=new HashMap<>();

static List<String> keys=new ArrayList<>(List.of("S","P","Q","R"));

static String[] values= {"senate","people","of","rome"};

static {

for(var i=0;i<keys.size();i++)

{

map.put(keys.get(i), values[i]);

}

}

public static void main(String[] args)

{

keys.clear();

values=new String[0];

System.out.println("Keys: "+keys.size()+" Values: "+values.length+" Map: "+map.size());

}

}

What is the result?

A. Keys: 4 Values: 4 Map: 0

B. Keys: 4 Values: 4 Map: 4

C. The compilation fails.

D. Keys: 0 Values: 0 Map:4

E. Keys: 0 Values: 0 Map: 0

Question 202:

Code:

**package** com.lti.group4;

**public** **class** Test

{

**public** **static** **void** main(String[] args)

{

StringBuilder txt1=**new** StringBuilder("PPQRRRSTT");

**int** i=0;

a:

**while**(i<txt1.length())

{

**char** x=txt1.charAt(i);

**int** j=0;

i++;

b:

**while**(j<txt1.length())

{

**char** y=txt1.charAt(j);

**if**(i!=j&&y==x)

{

txt1.deleteCharAt(j);

//line 1

}

j++;

}

}

System.***out***.println(txt1);

}

}

Which two statement inserted independently at line 1 enable this code to print PRRT?

A. i—;

B. continue b;

C. break b;

D. j--;

E. continue a;

F. break a ;

Question 203:

Code:

public class Menu {

enum Machine{

AUTO("Truck"), MEDICAL("Scanner");

private String type;

private Machine(String type){

this.type = type;

}

private void setType(String type) {

this.type = type; // line 1

}

private String getType() {

return type;

}

}

public static void main(String[] args) {

Machine.AUTO.setType("Sedan"); // line 2

for (Machine p : Machine.values()) {

System.out.println(p + ": " + p.getType()); // line 3

}

}

}

What is the result?

A) An exception is thrown at run time.

B) AUTO: Sedan

MEDICAL: Scanner

C) The compilation fails due to an error on line 2.

D) The compilation fails due to an error on line 1.

E) AUTO: Truck

Medical: Scanner

F) The compilation fails due to an error on line 3.

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

F. Option F

Question 204:

Code:

public interface AdaptorFirst {

void showFirst();

}

Which three classes successfully override showFirst ()?

A)

public abstract class MainClass implements AdaptorFirst{

public String showFirst() {

return "first";

}

}

B)

public abstract class MainClass implements AdaptorFirst{

public void showFirst() {

System.out.println("first");

}

}

C)

public abstract class MainClass implements AdaptorFirst{

void showFirst();

}

D)

public abstract class MainClass implements AdaptorFirst{

private void showFirst() {

System.out.println("first");

}

}

E)

public abstract class MainClass implements AdaptorFirst{

public abstract void showFirst();

}

F)

public abstract class MainClass implements AdaptorFirst{

public void showFirst() {

System.out.println("first");

}

}

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

F. Option F

Question 205:

class Worker{

privateboolean finished = false;

publicvoid consumerResource(Resource resource) {

while(!resource.isReady()) {

System.*out*.println("waiting for a resource");

try {

Thread.*sleep*(1000);

}catch(InterruptedException e) {

e.printStackTrace();

}

}

setFinished(true);

}

publicboolean isFinished(boolean finished) {

return finished;

}

publicvoid setFinished(boolean finished) {

this.finished = finished;

}

}

Resource resource = new resource();

Worker worker = new Worker();

Thread t1 = new Thread(() -> resource.processWork(worker));

Thread t2 = new Thread(() -> worker.consumerResource(resource));

t1.start();

t2.start();

Which situation will occur on code fragment execution?

A. Livelock

B. Deadlock

C. Race Condition

D. Starvation

Question 206:

Code:

**public** **class** Test {

**public** **static** **void** main(String[] args) {

**char**[][] arrays = {{'g','j'},{'h','k'},{'i','l'}};

**for** (**char**[] xx : arrays) {

**for** (**char** yy:xx) {

System.***out***.println(yy);

}

System.***out***.println(" ");

}

}

}

What is the result?

Options:

A. An arrayIndexOutofBoundsException is thrown at runtime.

B. The compilation fails.

C. gh ij kl

D. gj hk il

E. ghi jkl

Question 207:

Code:

public class Test {

class L extends Exception{ }

class M extends L { }

class N extends RuntimeException{ }

public void p() throws L { throw new M(); }

public void q() throws N { throw new N(); }

public static void main(String[] args) {

try {

Test t = new Test();

t.p();

t.q();

} /\*line 1 \*/ {

System.out.println("Exception caught");

}

}

}

What change on line 1 will make this code compile?

A. Add catch (L |N e).

B. Add catch (L |M N e).

C. Add catch (L e).

D. Add catch (N | L | M e).

E. Add catch (M |L e).

Question 208:

Code:

**import** java.io.IOException;

**import** java.nio.file.Files;

**import** java.nio.file.Path;

**import** java.nio.file.Paths;

**import** java.nio.file.attribute.BasicFileAttributes;

**public** **class** Main {

**public** **static** **void** main(String[] args) {

**try** {

Path path = Paths.*get*("/u01/work");

//line 1

//BasicFileAttributes attributes = Files isDirectory (path);

//BasicFileAttributes attributes =Files.getAttribute (path, ‘’insdirectory’’);

BasicFileAttributes attributes = Files.*readAttributes*(path, BasicFileAttributes.**class**);

//BasicFileAttributes attributes = Files, readAttributes (path, FileAttributes, class);

System.***out***.println(attributes.isDirectory());

}

**catch** (IOException e) {

e.printStackTrace();

}

}

}

You want to examine whether path is a directory. Which code inserted on line 1 will accomplish this?

A. BasicFileAttributes attributes = Files isDirectory (path);

B. BasicFileAttributes attributes =Files.getAttribute (path, ‘’insdirectory’’);

C. BasicFileAttributes attributes = Files.readAttributes(path, BasicFileAttributes.class

D. BasicFileAttributes attributes = Files, readAttributes (path, FileAttributes, class);

Question 209:

Code:

Integer[] ints = {1,2,3,4,5,6,7};

var list = Arrays.asList(ints);

UnaryOperator<Integer> uo = x -> x \* 3;

list.replaceAll(uo);

Which can replace line 11?

A. UnaryOperator<Interger > uo = (var x ) -> (x \* 3);

B. UnaryOperator<Interger >uo = var x -> { return x 3 ; };

C. UnaryOperator<Interger >uo = x -> { return x \* 3; };

D. UnaryOperator<Interger >uo = (int x) -> x \* 3;

Question 210:

Code:

Given:

public class point {

@JsonField(type = JsonField.Type.STRING, name = "name")

private String \_name;

@JsonField(type = JsonField.Type.INT)

private int x;

@JsonField(type = JsonField.Type.INT)

private int y;

}

What is the correct definition of the JsonField annotation that makes the Point class compile?

A) @Target(ElementType.FIELD)

@interface JsonField {

String name() default "";

enum Type {

INT, STRING, BOOLEAN

};

Type type();

}

B) @interface JsonField {

String name();

enum Type {

INT, STRING, BOOLEAN

};

Type type();

}

C) @Retention(RetentionPolicy.RUNTIME)

@Target(ElementType.METHOD)

@interface JsonField{

String name() default "";

enum Type{

INT, STRING, BOOLEAN

};

Type type();

}

A. Option A

B. Option B

C. Option C

Question 211:

Your organization makes mlib.jar available to your cloud customers. While working on a code cleanup project for mlib.jar, you see this method by customers:

public void enableService (String hostName, String portNumber) throws IOException {

this.transportSocket = new Socket (hostName, portNumber);

}

What security measures should be added to this method so that it meets the requirements for a customer accessible method?

A. Insert this code before the call to new Socket:

hostName = new String (hostName);

portNumber = new String (portNumber);

B. Create a method that validates the hostName and portNumber parameters before opening the socket.

C. Make enableService private.

D. Enclose the call to new Socket In an AccessController.doPrivileged block.

Question 212:

Code:

Given:

public interface Copier {

public default void print (String msg) {

System.out.println("Message from Copier: "+msg);

}

}

and

public abstract class AbstractCopier (

protected void print(String load) {

System.out.println("Message from Abstract Copier: "+load);

}

}

and

public class TestImpl extends AbstractCopier implements Copier {

public static void main(String[] args) {

TestImpl test = new TestImpl();

test.print("Attempt00");

}

}

What is the output?

A. A compilation error is thrown.

B. Message from Copier: Attempt00

C. Message from AbstractCopier: Attempt00

D. A runtime error is thrown.

(Explanation: TestImpl file: The inherited method AbstractCopier.print(String) cannot hide the public abstract method in Copier)

Question 213:

Code:

interface Abacus (

public int calc (int a, int b);

}

and

public class Main {

public static void main(String[] args) {

int result = 0;

// line 1

result = aba.calc(10,20);

System.out.println(result);

}

}

Which two codes, independently, can be inserted in line to 1 compile?

A. Abacus aba = (int m, int n) -> { m \* n };

B. Abacus aba = (int e, int f) -> { return e \* f; };

C. Abacus aba = (a, b) -> a \* b;

D. Abacus aba = v, w -> x \* y;

E. Abacus aba = (int i, j) -> (return i \* j; };

Question 214:

Code:

public class FizzBuzz {

public static String convert(int x) {

if (x % 15 == 0)

return "FizzBuzz";

else if (x % 3 == 0)

return "Fizz";

else if (x % 5 == 0)

return "Buzz";

else

return Integer.toString(x);

}

public static void main(String[] args) {

for (int i = 1; i < 101; i++) {

System.out.println(convert(i));

}

}

}

Which code fragment replaces the for statement?

A. IntStream.rangeClosed (I, 100).map(FizzBuzz::convert).forEach(System.out::println);

B. IntStream.ranged, 100).map(FizzBuzz::convert).forEach(System.out::println);

C.Intstream.rangeclosed(1,100).mapToObj(FizzBuzz::convert).forEach(System.out::println);

D.IntStream.range(1, 100).mapToObj(FizzBuzz::convert).forEach(System.out::println);

Question 215/1:

Code:

interface Copier{

public default void print (String msg) {

System.out.println("Message from Copiar: " + msg);

}

}

public abstract class AbstractCopier {

protected void print (String load) {

System.out.println("Message from AbstractCopier: " + load);

}

}

public class TestImpl extends AbstractCopier implements Copier {

public static void main(String[] args) {

TestImpl test = new TestImpl();

test.print("Attempt00");

}

}

What is the output?

A) A compilation error is thrown.

B) Message from Abstract Copier: Attempt00

C) A runtime error is thrown.

D) Message from Copier: Attempt00

Question 216/2:

Code:

public class Test {

public void process (byte v) { System.out.println("Byte value " + v); }

public void process (short v) { System.out.println("Short value " + v); }

public void process (Object v) { System.out.println("Object value " + v); }

public static void main(String[] args) {

byte x = 12;

short y= 13;

new Test().process(x+y); // line 1

}

}

What is the output?

A) Short value 25

B) The compilation fails due to an error in line 1.

C) Object value 25

D) Byte value 25

Question 217/3:

Code:

var fruits = List.of("apple", "orange", "banana", "lemon");

Optional<String> result = fruits.stream().filter(f->f.contains("a")).findAny(); // line 1

System.out.println(result.get());

You replace the code on line 1 to use Parallelstream.

Which one is correct?

A) The code may produce a different result.

B) The code will produce the same result.

C) A NoSuchElementException Is thrown at run time.

D) The compilation fails.

Question 218/4:

Code:

**interface** Pastry {

**void** getIngredients();

}

**abstract** **class** Cookie **implements** Pastry {}

**class** ChocolateCookie **implements** Cookie {

**public** **void** getIngredients () {}

}

**class** Coconut ChocolateCookie **extends** Chocolate{

**void** getIngredients (**int** x) {}

}

Which is true?

A) The compilation falls due to an error in line 7.

B) The compilation falls due to an error in line 6.

C) The compilation fails due to an error in line 10.

D) The compilation falls due to an error in line 4.

E) The compilation succeeds.

F) The compilation fails due to an error in line 9.

G) The compilation fails due to an error in line 2

Question 219/5:

Your organization provides a cloud server to your customer to run their Java code. You are reviewing the changes for the ne the config files: old: JAVA\_OPTS="SJAVA\_OPTS -Xms8g -Xmx8g" new: JAVA\_OPTS="SJAVA\_OPTS -Xms8g -Xmx8g -noverify"

Which is correct?

A) You accept the change because noverify is a standard option that has been supported since Java 1.0.

B) You reject the change because -Xms8g -Xmx8g uses too much system memory.

C) You accept the change because -noverify is necessary for your code to run with the

latest version of Java.

D) You reject the change because -noverify is a critical security risk.

Question 220/6:

Code:

**import** java.io.FileNotFoundException;

**class** ExSuper **extends** Exception {

**private** **int** errorCode;

**public** ExSuper(**int** errorCode, Throwable cause) {

**super**(errorCode + ": " + cause.getMessage());

**this**.errorCode = errorCode;

}

}

**class** ExSub **extends** ExSuper {

**private** String message;

**public** ExSub(**int** errorCode, String message, Throwable cause) {

**super**(errorCode, cause);

**this**.message = message;

}

@Override

**public** String getMessage() {

**return** **super**.getMessage().replace("java.io.", "") + "-" + message;

}

}

**public** **class** Main {

**public** **static** **void** main(String[] args) {

**try** {

String param1 = "Oracle";

**if** (param1.equalsIgnoreCase("oracle")) {

**throw** **new** ExSub(9001, "APPLICATION ERROR-9001", **new** FileNotFoundException("MyFile.txt"));

}

**throw** **new** ExSuper(9001, **new** FileNotFoundException("MyFile.txt")); // Line 1

} **catch** (ExSuper ex) {

System.***out***.println(ex.getMessage());

}

}

}

What is the result?

A) 9001: APPLICATION ERROR-9001-MyFile.tx 9001: .io.FileNotFoundException: MyFile.txt-MyFile.txt

B) 9001: APPLICATION ERROR-9001-MyFile.txt

C) Compilations fails at Line 1.

D) 9001: java.io.FileNotFoundException: MyFile.txt-MyFile.txt

Question 221/7:

Code:

var i = 10;

var j = 5;

i += (j \* 5 + i) / j - 2;

System.out.println(i);

What is the result?

A) 21

B) 5

C) 23

D) 11

E) 15

Question 222/8:

Code:

import java.util.ArrayList;

import java.util.Arrays;

public class NewMain {

public static void main(String[] args) {

String [] catNames = {"abyssinian", "oxicat", "korat", "laperm", "bengal", "sphynx"};

var cats = new ArrayList<>(Arrays.asList(catNames));

cats.sort((var a, var b)->-a.compareTo(b));

cats.forEach(System.out::println);

}

}

What is the result?

A) abyssinian

oxicat

korat

laperm

bengal

sphynx

B) nothing

C) sphynx

oxicat

laperm

korat

bengal

abyssinian

D) abyssinian

bengal

korat

laperm

oxicat

sphynx

Question 223/9:

Code:

Assuming the Book class contains the getPrice() method and give the code fragment:

List<Book> books = List.of(new Book("Goodbye to Childhood", 15),

new Book("Farewell to the Land", 35),

new Book("City Life", 17));

Which two statements, independently, print the books with price less than 20?

A) Stream bookStream = books.stream();

bookStream.map((Book a) -> a.getPrice() < 20)

.forEach(System.out::println);

B) Stream bookStream = books.stream();

bookStream.filter(a -> ((Book)a).getPrice() < 20)

.forEach(System.out::println);

C) Stream bookStream = books.stream();

bookStream.filter(a -> a.getPrice() < 20)

.peek(System.out::println);

D) books.stream().filter(a -> a.getPrice() < 20)

.forEach(System.out::println);

E) Stream<Book> bookStream = books.stream();

books.stream().peek(a -> a.getPrice() < 20)

.forEach(System.out::println);

Question 224/10:

Code:

class Scope {

static int myint=666;

public static void main(String[] args) {

int myint = myint;

System.out.println(myint);

}

}

Which is true?

A) Code compiles but throws a runtime exception

B) The code does not compile successfully.

C) The code compiles and runs successfully but with

D) It prints 666.

Question 225/11:

Code:

public class Foo {

public static String ALPHA ="alpha";

protected String beta = "beta";

private final String delta;

public Foo (String d) {

delta = ALPHA + d;

}

public String foo() {

return beta += delta;

}

}

Which change would make Foo more secure?

A) public String beta = "beta";

B) public static final String ALPHA="alpha" ;

C) protected final String beta = "beta";

D) private String delta.

Question 226/12:

Code:

import java.util.ArrayList;

import java.util.Iterator;

public class Main {

public static void main(String[] args) {

ArrayList<Integer> al = new ArrayList<>();

al.add(1);

al.add(2);

al.add(3);

al.add(4);

al.add(5);

Iterator<Integer> itr = al.iterator();

while (itr.hasNext()) {

if (itr.next() == 2) {

al.remove(2);

System.out.print(itr.next());

}

}

}

}

What is the result?

A) 1 2 4 5

B) 1 2 followed by an exception

C) 1 2 3 followed by an exception

D) A ConcurrentModificationException is

Question 227/13:

Code:

**package** com.lti.group4;

**public** **class** Test

{

**public** **static** **void** main(String[] args)

{

StringBuilder txt1=**new** StringBuilder("PPQRRRSTT");

**int** i=0;

a:

**while**(i<txt1.length())

{

**char** x=txt1.charAt(i);

**int** j=0;

i++;

b:

**while**(j<txt1.length())

{

**char** y=txt1.charAt(j);

**if**(i!=j&&y==x)

{

txt1.deleteCharAt(j);

//line 1

}

j++;

}

}

System.***out***.println(txt1);

}

}

Which two statement inserted independently at line 1 enable this code to print PRRT?

A. i—;

B. continue b;

C. break b;

D. j--;

E. continue a;

F. break a ;

Question 228/14:

Code:

Given the code fragment:

public class Foo {

public static String ALPHA delta ALPHA ="alpha" ;

protected string beta="beta";

private final String delta;

public Foo(String d) {

delta=ALPHA+d;

}

public String foo() 1

return beta+=delta;

}

which change would make Foo more secure?

A) protected final String beta ="beta";

B) public static final String ALPHA = "alpha";

C) private String delta;

D) public String beta ="beta";

Question 229/15:

Code:

Given the code fragment:

public class Foo {

public static String ALPHA delta ALPHA ="alpha" ;

protected string beta="beta";

private final String delta;

public Foo(String d) {

delta=ALPHA+d;

}

public String foo() 1

return beta+=delta;

}

which change would make Foo more secure?

A) protected final String beta ="beta";

B) public static final String ALPHA = "alpha";

C) private String delta;

D) public String beta ="beta";

Question 230/16:

Code:

**public** **class** Hello {

**privateint** sum;

**publicint** compute() {

**int** x=0;

**while**(x<3) {

sum+=++x;

}

**return** sum/4;

}

**publicstatic** **void** main(String[] args) {

Hello t=**new** Hello();

**int** sum=t.compute();

sum=t.compute();

t.compute();

System.***out***.println(sum);

}

}

What is the result?

A) 3

B) 9

C) 6

D) An exception is thrown at runtime

Question 231/17:

Code:

import java.text.NumberFormat;

import java.util.Locale;

public class Test {

public static void main(String[] args) {

Locale locale = Locale.US;

NumberFormat formatter = NumberFormat.getCurrencyInstance(locale);

double currency = 1\_00.00;

System.out.println(formatter.format(currency));

}

}

You want to display the value of currency as $100.00.

Which code inserted on line 1 will accomplish this?

A) NumberFormat formatter = NumberFormat.getInstance(locale);

B) NumberFormat formatter = NumberFormat.getCurrency(locale);

C) NumberFormat formatter = NumberFormat.getCurrencyInstance(locale);

D) NumberFormat formatter = NumberFormat.getInstance(localegetCurrency());

Question 232/18:

Code:

public class Test {

public static void main(String[] args) {

AnotherClass ac=new AnotherClass();

SomeClass sc=new AnotherClass();

ac=sc;

sc.methodA();

ac.methodA();

}

}

class SomeClass{

public void methodA() {

System.out.println("SomeClass#methodA()");

}

}

class AnotherClass extends SomeClass{

public void methodA() {

System.out.println("AnotherClass#methodA()");

}

}

What is the result?

A) SomeClass#methodA()

AnotherClass#methodA()

B) A ClassCastException is thrown at runtime

C) The compilation fails

D) AnotherClass#methodA()

AnotherClass#methodA()

E) AnotherClass#methodA()

SomeClass#methodA()

Question 233/19:

Code:

public class Main {

public static void main(String[] args) {

Integer i = 11;

double d = i;

Double b = Double.valueOf(i);

}

}

Given the code fragment:

Integer i = 11;

Which two statements compile?

A) double d = i;

B) double e = Double.parseDouble(i);

C) Double b = Double.valueOf(i);

D) Double c = (Double) i;

E) Double a = i;

Question 234/20:

Code:

**package** exercise;

**public** **interface** A {

**public** Iterable a();

}

**import** java.util.Collection;

**public** **interface** B **extends** A{

**public** Collection a();

}

**import** java.nio.file.Path;

**public** **interface** C **extends** A{

**public** Path a();

}

**public** **interface** D **extends** B,C{

}

Why does D cause a compilation error?

A) D extends more than one Interface.

B) D inherits a() only from c.

C) D inherits a() from B and C but the return types are incompatible.

D) D does not define any method.

Question 235/21:

Code:

public class Test {

private final int x = 1;

static final int y = 0;

public Test() {

System.out.println(x);

System.out.println(y);

}

public static void main(String []args) {

new Test();

}

}

What is the result?

A) compilation fails at line 10.

B) compilation fails at line 9.

C) compilation fails at line 6.

D) compilation fails at line 1.

E) compilation fails at line 13.

Question 236/22:

Code:

**package** Demo;

**public** **class** Demo1 {

**publicstatic** **void** main(String args[]) {

**int** i=10;

**do** {

**for**(**int** j=i/2;j>0;j--) {

System.***out***.print(j +"");

}

i-=2;

}

**while**(i>0);

}

}

What is the result?

**Options:**

1. Nothing
2. 5 4 3 2 1 4 3 2 1 3 2 1 2 1 1
3. 5
4. 5 4 3 2 1

Question 237/23:

Code:

**package** Demo;

**import** java.io.\*;

**public** **class** Tester {

**publicstatic** **void** main(String args[]) {

**try** {

*doA*();

*doB*();

}**catch**(IOException e) {

System.***out***.print("c");

**return**;

}**finally** {

System.***out***.print("d");

}

System.***out***.print("f");

}

**privatestatic** **void** doB() **throws** FileNotFoundException {

System.***out***.print("b");

**if**(**true**) {

**throw** **new** FileNotFoundException();

}

}

**privatestatic** **void** doA() {

System.***out***.print("a");

**if**(**false**) {

**thrownew** IndexOutOfBoundsException();

}

}

}

What is the result?

**Options:**

1. abcd
2. The compilation fails
3. abdf
4. abd
5. adf

Question 238/24:

**Which code fragment does a service use to load the service provider with a print Interface?**

A) private java.util.ServiceLoader<Print> loader= ServiceLoader.load(Print.class);

B) private java.util.ServiceLoader<Print> loader= new java.util.ServiceLoader<>();

C) private Print print = new com.service. Provider.PrintImpl();

D) private Print print = com.service.Provider.getInstance();

Question 239/25:

Code:

public class Test {   
 public void process(byte v) {   
 System.out.println("Byte value " + v);   
 }   
    
 public void process(short v) {   
 System.out.println("Short value " + v);   
 }   
    
 public void process(Object v) {   
 System.out.println("Object value " + v);   
 }   
    
 public static void main(String[] args) {   
 byte x = 12;   
 short y = 13;   
 new Test().process(x + y); // line 1   
 }   
 }

What is the output?   
    
 A) Short value 25   
 B) The compilation fails due to an error in line 1.   
 C) Object value 25    
 D) Byte value 25

Question 240/26:

Code:

interface Pastry {   
 void getIngredients();   
 }   
    
 abstract class Cookie implements Pastry {   
 }   
    
 class ChocolateCookie extends Cookie {   
 public void getIngredients() {   
    
 }   
 }   
    
 class CoconutChocolateCookie extends ChocolateCookie {   
 void getIngredients(int x) {   
    
 }   
 }

Which statement is true?   
    
 A) The compilation fails due to an error in line 7.   
 B) The compilation fails due to an error in line 6.   
 C) The compilation fails due to an error in line 10.    
 D) The compilation fails due to an error in line 4.    
 E) The compilation succeeds.   
 F) The compilation fails due to an error in line 9.    
 G) The compilation fails due to an error in line 2.

Question 241/27:

Code:

import java.util.\*;   
 import java.util.function.\*;   
 import java.util.stream.Collectors;   
    
 class Employee {   
 private String name;   
 private String neighborhood;   
 private int salary;   
    
 public Employee(String name, String neighborhood, int salary) {   
 this.name = name;   
 this.neighborhood = neighborhood;   
 this.salary = salary;   
 }   
    
 public String getName() {   
 return name;   
 }   
    
 public String getNeighborhood() {   
 return neighborhood;   
 }   
    
 public int getSalary() {   
 return salary;   
 }   
    
 @Override   
 public String toString() {   
 return name + " (" + salary + ")";   
 }   
 }   
    
 public class Main {   
 public static void main(String[] args) {   
 List<Employee> roster = Arrays.asList(   
 new Employee("Alice", "Downtown", 50),   
 new Employee("Bob", "Uptown", 25),   
 new Employee("Charlie", "Downtown", 60),   
 new Employee("David", "Midtown", 40),   
 new Employee("Eve", "Midtown", 20)   
 );   
    
 // Predicate to filter employees with salary > 30   
 Predicate<Employee> p = e -> e.getSalary() > 30;   
    
 // Grouping employees by neighborhood and filtering by salary   
 Map<String, List<Employee>> result = roster.stream()   
 .collect(Collectors.groupingBy(Employee::getNeighborhood,   
 Collectors.filtering(p, Collectors.toList())));   
 System.out.println(result);   
 }   
 }

Which two `Map` objects correctly group all employees with a salary greater than 30 by neighborhood?   
    
 A)    
 Map<String, List<Employee>> Il = roster.stream()   
 .collect(Collectors.groupingBy(Employee::getNeighborhood,   
 Collectors.filtering(p, Collectors.toList())));   
    
    
 B)    
 Map<Optional<String>, List<Employee>> I5 = roster.stream()   
 .collect(Collectors.groupingBy(Employee::getNeighborhood,   
 Collectors.filtering(p, Collectors.toList())));   
    
    
 C)    
 Map<Optional<String>, List<Employee>> I3 = roster.stream()   
 .filter(p)   
 .collect(Collectors.groupingBy(p));

Question 242/28:

Code:

**package** com.lti.group4;

**public** **class** Test

{

**public** **static** **void** main(String[] args)

{

StringBuilder txt1=**new** StringBuilder("PPQRRRSTT");

**int** i=0;

a:

**while**(i<txt1.length())

{

**char** x=txt1.charAt(i);

**int** j=0;

i++;

b:

**while**(j<txt1.length())

{

**char** y=txt1.charAt(j);

**if**(i!=j&&y==x)

{

txt1.deleteCharAt(j);

//line 1

}

j++;

}

}

System.***out***.println(txt1);

}

}

Which two statement inserted independently at line 1 enable this code to print PRRT?

A. i—;

B. continue b;

C. break b;

D. j--;

E. continue a;

F. break a ;

Question 243/29:

Code:

Code:

class Scope {

static int myint=666;

public static void main(String[] args) {

int myint = myint;

System.out.println(myint);

}

}

Which is true?

A) Code compiles but throws a runtime exception

B) The code does not compile successfully.

C) The code compiles and runs successfully but with

D) It prints 666.

Question 244/30:

Code:

Code:

Assuming the Book class contains the getPrice() method and give the code fragment:

List<Book> books = List.of(new Book("Goodbye to Childhood", 15),

new Book("Farewell to the Land", 35),

new Book("City Life", 17));

Which two statements, independently, print the books with price less than 20?

A) Stream bookStream = books.stream();

bookStream.map((Book a) -> a.getPrice() < 20)

.forEach(System.out::println);

B) Stream bookStream = books.stream();

bookStream.filter(a -> ((Book)a).getPrice() < 20)

.forEach(System.out::println);

C) Stream bookStream = books.stream();

bookStream.filter(a -> a.getPrice() < 20)

.peek(System.out::println);

D) books.stream().filter(a -> a.getPrice() < 20)

.forEach(System.out::println);

E) Stream<Book> bookStream = books.stream();

books.stream().peek(a -> a.getPrice() < 20)

.forEach(System.out::println);