ccpp > OOPJ Mock CCEE - 1

QUIZ

Started on	Wednesday, 6 December 2023, 10:01 PM
State	Finished
Completed on	Wednesday, 6 December 2023, 10:05 PM
Time taken	4 mins 44 secs
Grade	<b>10.00</b> out of 40.00 ( <b>25</b> %)
Question 1	
Incorrect	
Mark 0.00 out of 1.00	

Given this code segment:

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

String integer = br.readLine();

// CODE

System.out.println(val);

Which one of the following statements when replaced by the comment CODE will successfully read an integer value from console

- a. int val = String.parseInt(integer);
- b. int val = Integer.parseInt(integer);
- c. int val = integer.getInteger();
- d. int val = Number.parseInteger(integer);

Your answer is incorrect.

The correct answer is:

int val = Integer.parseInt(integer);

:06 PM	OOPJ MOCK CGEE - 1: Attempt review
Question 2	
Incorrect	
Mark 0.00 out of 1.00	
Choose the correct option based on this code segme	ent:
	tory in which this code segment is run and has the content "hello". Which ND_FILE that will successfully read the "file.txt" and print "hello" on the
<ul><li>a. Stream<string> lines = File.readLines(path);</string></li></ul>	×
b. List <string> lines = Files.lines(path);</string>	
o. Stream <string> lines = Files.readAllLines(pa</string>	ith);
d. Stream <string> lines = Files.lines(path);</string>	
Your answer is incorrect.	
The correct answer is:	
Stream <string> lines = Files.lines(path);</string>	
Question 3 Correct	
Mark 1.00 out of 1.00	
Choose the correct option based on this code segme	ent:
Stream ints = Stream.of(1, 2, 3, 4);	
boolean result =ints.parallel().map(Function.identity()).isParallel();	
System.out.println(result);	
■ a. This code segment prints: true	
	ntionEvention for the cell parallel
b. This code segment throws InvalidParalleliza	шоньхоерион тог the сап раганец)
c. This code segment prints: false	
<ul> <li>d. This code segment results in compiler error</li> </ul>	(s)
Your answer is correct.	

The correct answer is:

This code segment prints: true

Question 4	
Incorrect	
Mark 0.00 out of 1.00	

Which one of the following interfaces declares a single abstract method named iterator()?

(Note: Implementing this interface allows an object to be the target of the for-each statement.)

- b. Iterator<T>
- c. ForEach<T>
- d. Iterable<T>

Your answer is incorrect.

The correct answer is: Iterable<T>

# Question 5

Correct

Mark 1.00 out of 1.00

```
Given this class definition:
class Point {
  private int x = 0, y;
  public Point(int x, int y) {
  this.x = x;
  this.y = y;
  }
  // DEFAULT_CTOR
}
```

Which one of the following definitions of the Point constructor can be replaced without compiler errors in place of the comment DEFAULT\_CTOR?

- a. private Point() { this(0, 0);}

  ✓
- b. public Point() { super(); this(0, 0); }
- c. public Point() { this(0, 0); super();}
- d. public Point() { this();}

Your answer is correct.

The correct answer is: private Point() { this(0, 0);}

# OOPJ Mock CCEE - 1: Attempt review Question $\bf 6$ Correct Mark 1.00 out of 1.00 Consider the following code segment: while( (ch = inputFile.read()) != VALUE) { outputFile.write((char)ch); } Assume that inputFile is of type FileReader, and outputFile is of type FileWriter, and ch is of type int. The method read() returns the character if successful, or VALUE if the end of the stream has been reached. What is the correct value of this VALUE checked in the while loop for end-of-stream? a. -1 ✓ o b. 255 c. Integer.MAX\_VALUE d. 0 Your answer is correct. The correct answer is: -1 Question 7Incorrect Mark 0.00 out of 1.00 Given this code segment: LocalDate joiningDate = LocalDate.of(2014,Month.SEPTEMBER, 20); LocalDate now = LocalDate.of(2015, Month.OCTOBER,20); // GET\_YEARS System.out.println(years); a. Period years = Period.between(joiningDate, now).getYears(); b. int years = Period.between(joiningDate, now).getYears();

Your answer is incorrect.

The correct answer is:

int years = Period.between(joiningDate, now).getYears();

c. Duration years = Period.between(joiningDate, now).getYears();d. Instant years = Period.between(joiningDate, now).getYears();

```
Question 8
Correct
Mark 1.00 out of 1.00
```

```
Consider the following program:

public class Outer {
    private int mem = 10;
    class Inner {
    private int imem = new Outer().mem; // ACCESS1
    }
    public static void main(String []s) { System.out.println(new Outer().new Inner().imem); //ACCESS2
    }
}
Which one of the following options is correct?
```

- a. When executed, this program prints 0
- b. When compiled, this program will result in a compiler error in line marked with comment ACCESS2
- o. When compiled, this program will result in a compiler error in line marked with comment ACCESS1
- od. When executed, this program prints 10

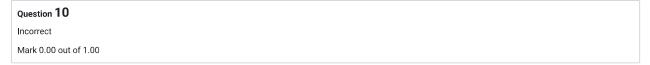
The correct answer is:

When executed, this program prints 0

```
Question 9
Incorrect
Mark 0.00 out of 1.00
```

```
What will be the output of the following program?
class Base {
    public Base() {
        System.out.println("Base");
}
class Derived extends Base {
    public Derived() {
        System.out.println("Derived");
    }
}
class DeriDerived extends Derived {
    public DeriDerived(){
        System.out.print In ("DeriDerived");\\
}
class Test {
    public static void main(String []args) {
        Derived b = new DeriDerived();
    }
}
 b. Base Derived DeriDerived
 o. Derived DeriDerived
 d. DeriDerived Derived
 o e. DeriDerived Derived Base
```

The correct answer is: Base Derived DeriDerived



Given this code snippet:

```
public static Connection connectToDb() throws SQLException {
  String url = "jdbc:mysql://localhost:3306/";
  String database = "addressBook";
  String userName = "root";
  String password = "mysql123";
  // CONNECT_TO_DB
}
```

Which one of the following statements will you replace with the comment CONNECT\_TO\_DB to create a Connection object?

- a. return DatabaseManager.getConnection(url, database, userName,password);
- b. return DatabaseDriver.getConnection(url + database, userName,password);
- c. return Connection.getConnection(url, database, userName,password);
- d. return DriverManager.getConnection(url + database, userName,password);

Your answer is incorrect.

The correct answer is:

return DriverManager.getConnection(url + database, userName,password);

# Question 11

Incorrect

Mark 0.00 out of 1.00

Choose the correct option based on this code segment:

```
List ints = Arrays.asList(1, 2, 3, 4, 5);
ints.replaceAll(i -> i * i); // LINE
System.out.println(ints);
```

- b. This code segment throws java.lang.UnsupportedOperationException
- o. This code segment results in a compiler error in the line marked with the comment LINE
- od. This program prints: [1, 4, 9, 16, 25]

Your answer is incorrect.

The correct answer is:

This program prints: [1, 4, 9, 16, 25]

Question 12
Correct
Mark 1.00 out of 1.00

Which one of the following options is best suited for generating random numbers in a multi-threaded application?

- a. Using java.util.concurrent.ThreadLocalRandom

  ✓
- b. Using java.util.RandomAccess
- o. Using java.util.RandomThread
- od. Using java.lang.Math.random()

The correct answer is: Using java.util.concurrent.ThreadLocalRandom

# Question 13 Incorrect Mark 0.00 out of 1.00

Consider the following definitions: interface BI {} interface DI extends BI {}

The following options provide definitions of a template class X. Which one of the options specifies class X with a type parameter whose upper bound declares DI to be the super type from which all type arguments must be derived?

- a. class X <T implements DI> {}X
- b. class X <T extends ? & DI> {}
- c. class X <T extends DI> { }

Your answer is incorrect.

The correct answer is: class X <T extends DI> { }

```
Question 14
Incorrect
Mark 0.00 out of 1.00
```

```
Given this code segment:
final CyclicBarrier = new CyclicBarrier(3, () -> System.out.println("Let's play"));
// LINE_ONE
Runnable r = () \rightarrow \{
// LINE_TWO
System.out.println("Awaiting");
try {
barrier.await();
} catch(Exception e) { /* ignore */ }
};
Thread t1 = new Thread(r);
Thread t2 = new Thread(r);
Thread t3 = new Thread(r);
t1.start();
t2.start();
t3.start();
```

Choose the correct option based on this code segment.

- b. This code segment results in a compiler error in line marked with the comment LINE\_ONE
- o. This code prints: Awaiting Awaiting Awaiting Let's play
- od. This code prints: Let's play

Your answer is incorrect.

The correct answer is:

This code prints: Awaiting Awaiting Awaiting Let's play

```
Question 15
Incorrect
Mark 0.00 out of 1.00
```

```
Consider the following snippet:
int ch = 0;
try (FileReader inputFile = new FileReader(file)) {
// #1
System.out.print( (char)ch );
}
}
```

Which one of the following statements can be replaced with statement #1 so that the contents of the file are correctly printed on the console and the program terminates.

```
a. while( (ch = inputFile.read()) != 0) { x
b. while( (ch = inputFile.read()) != EOF) {
c. while( (ch = inputFile.read()) != null) {
d. while( (ch = inputFile.read()) != -1) {
```

#### Your answer is incorrect.

```
The correct answer is: while( (ch = inputFile.read()) != -1) {
```

# Question 16

Incorrect

Mark 0.00 out of 1.00

Given the code segment:

```
List integers = Arrays.asList(15, 5, 10, 20, 25, 0); // GETMAX
```

Which of the code segments can be replaced for the comment marked with GETMAX to return the maximum value?

```
a. Integer max = integers.max();
b. Integer max = integers.stream().max((i, j) -> i - j).get();
c. Integer max = integers.stream().mapToInt(i -> i).max();
d. Integer max = integers.stream().max().get();
```

Your answer is incorrect.

```
The correct answer is:
```

Integer max = integers.stream().max((i, j) -> i - j).get();

```
Question 17
Incorrect
Mark 0.00 out of 1.00
```

Evaluate the following Java expression, if x=3, y=5, and z=10:

```
++z + y - y + z + x++
```

- a. 24
- o b. 20
- c. 25
- od. 23

Your answer is incorrect.

The correct answer is:

25

#### Question 18

Correct

Mark 1.00 out of 1.00

```
Consider the following program:
```

```
class WildCard {
    interface BI {}
    interface DI extends BI {}
    interface DDI extends DI {}
    static class C {}
    static void foo(C arg) {}
    public static void main(String []args) {
        foo(new C()); // ONE
        foo(new C()); // TWO
        foo(new C()); // THREE
        foo(new C()); // FOUR
    }
}
```

- a. Line marked with comment THREE will result in a compiler error
- b. Line marked with comment FOUR will result in a compiler error
- o. Line marked with comment TWO will result in a compiler error
- Od. Line marked with comment ONE will result in a compiler error

Your answer is correct.

The correct answer is:

Line marked with comment THREE will result in a compiler error

```
Question 19
Incorrect
Mark 0.00 out of 1.00
```

```
Given this code segment:

Set set = new CopyOnWriteArraySet(); // #1

set.add("2");

set.add("1");

Iterator iter = set.iterator();

set.add("3"); set.add("-1");

while(iter.hasNext()) {

System.out.print(iter.next() + " ");

}

a. This code segment the following: 1 2 **

b. This code segment prints the following: -1 1 2 3

c. This code segment prints the following: 2 1 3 -1

d. This code segment prints the following: 2 1
```

The correct answer is:

This code segment prints the following: 21

# Question 20

Incorrect

Mark 0.00 out of 1.00

Which one of the following statements will compile without errors?

```
a. Locale locale3 = new US.Locale();
b. Locale locale1 = new Locale.US;
c. Locale locale2 = Locale.US;
d. Locale locale4 = Locale("US");
```

The correct answer is: Locale locale2 = Locale.US;

```
Question 21
Incorrect
Mark 0.00 out of 1.00
```

```
Consider the following program:

class Outer {

class Inner {

public void print() {

System.out.println("Inner: print");

}

}}

class Test {

public static void main(String []args) {

// Stmt#1

inner.print();

}}

Which one of the following statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the static void main statements will you replace with the statements will you re
```

Which one of the following statements will you replace with // Stmt#1 to make the program compile and run successfully to print "Inner: print" in console?

- a. Inner inner = new Outer.Inner();
- b. Outer.Inner inner = new Outer.Inner();
- c. Outer.Inner inner = new Outer().new Inner();
- d. Outer.Inner inner = new Outer().Inner();

Your answer is incorrect.

The correct answer is:

Outer.Inner inner = new Outer().new Inner();

# Question 22

Incorrect

Mark 0.00 out of 1.00

For the following enumeration definition, which one of the following prints the value 2 in the console? enum Pets { Cat, Dog, Parrot, Chameleon };

- a. System.out.print(Pets.Parrot);
- b. System.out.print(Pets.Parrot.value());
- c. System.out.print(Pets.Parrot.ordinal());
- d. System.out.print(Pets.indexAt("Parrot"));

Your answer is incorrect.

The correct answer is:

System.out.print(Pets.Parrot.ordinal());

Question 23	
Correct	
Mark 1.00 out of 1.00	

Choose the correct option based on this code segment:

Stream words = Stream.of("eeny", "meeny", "miny", "mo"); // LINE\_ONE
String boxedString = words.collect(Collectors.joining(", ", "[", "]")); // LINE\_TWO
System.out.println(boxedString);

- This program prints: [eeny, meeny, miny, mo]

  ✓
- ob. This program prints: [eeny], [meeny], [miny], [mo]
- oc. This code results in a compiler error in line marked with the comment LINE\_ONE
- d. This code results in a compiler error in line marked with the comment LINE\_TWO

Your answer is correct.

The correct answer is:

This program prints: [eeny, meeny, miny, mo]

# Question 24

Correct

Mark 1.00 out of 1.00

Two friends are waiting for some more friends to come so that they can go to a restaurant for dinner together. Which synchronization construct could be used here to programmatically simulate this situation?

- a. java.util.concurrent.CyclicBarrier

  ✓
- ob. java.util.concurrent.locks.Lock
- o. java.util.concurrent.RecursiveTask
- od. java.util.concurrent.RecursiveAction

The correct answer is: java.util.concurrent.CyclicBarrier

0:06 PM	OOPJ Mock CCEE - 1: Attempt review
Question 25	
Correct	
Mark 1.00 out of 1.00	
Consider the following program: class ClassA {} interface InterfaceB {} class ClassC {} class Test extends ClassA implements Inter	faceB { String msg;
ClassC classC;	
} Which one of the following statements is tru	ie?
<ul> <li>a. Class Test is related to ClassC with</li> </ul>	a composition relationship. ✔
<ul> <li>b. Class ClassA is related with Interface</li> </ul>	ceB with an IS-A relationship.
c. Class Test is related with String with	h an IS-A relationship.
od. Class Test is related with ClassA wi	th a HAS-A relationship.
Your answer is correct.	
The correct answer is: Class Test is related to ClassC with a compo	osition relationship.
Question 26	
Incorrect	
Mark 0.00 out of 1.00	
Choose the correct option based on the follo Comparator comparer = (country1, country2 // COMPARE_TO String[] brics = {"Brazil", "Russia", "India", "Ch Arrays.sort(brics, null); Arrays.stream(brics).forEach(country ->Sys	oina");

Comparator comparer = (country1, country2) -country2.compareTo(country2);

// COMPARE\_TO
String[] brics = {"Brazil", "Russia", "India", "China"};
Arrays.sort(brics, null);
Arrays.stream(brics).forEach(country ->System.out.print(country + " "));

a. The program results in a compiler error in the line marked with the comment COMPARE\_TO \*

b. The program prints the following: Brazil Russia India China

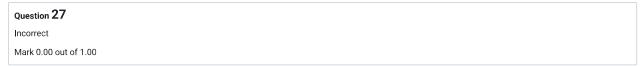
c. The program prints the following: Russia India China Brazil

d. The program prints the following: Brazil China India Russia

Your answer is incorrect.

The correct answer is:

The program prints the following: Brazil China India Russia



Given the class definition:

```
class Student{
    public Student(int r) {
        rollNo = r;
    }
    int rollNo;
}
Choose the correct option based on this code segment:
HashSet students = new HashSet<>>();
students.add(new Student(5));
students.add(new Student(10));
```

System.out.println(students.contains(new Student(10)));

- b. This program results in compiler error(s)
- o. This program prints the following: false
- d. This program throws NoSuchElementException

Your answer is incorrect.

The correct answer is:

This program prints the following: false

# Question 28

Incorrect

Mark 0.00 out of 1.00

In the context of Singleton pattern, which one of the following statements is true?

- a. A Singleton class must not have any static members \*
- b. All methods of the Singleton class must be private
- o. A Singleton class has a public constructor
- od. A Factory class may use Singleton pattern

The correct answer is: A Factory class may use Singleton pattern

Question 29
Correct
Mark 1.00 out of 1.00

Which of the following statements is true with respect to enums?

- a. An enum can have private constructor, enum can have public methods and fields
- b. An enum can extend a class
- oc. An enum cannot implement an interface
- od. An enum can have public constructor

The correct answer is: An enum can have private constructor, enum can have public methods and fields

```
Question 30
Incorrect
Mark 0.00 out of 1.00
```

```
Choose the correct option for this code snippet:

public static void main(String [[files) {

try (FileReader inputFile = new FileReader(new File(files[0]))) {// #1

inputFile.close(); // #2

}

catch (FileNotFoundException | IOException e) { // #3

e.printStackTrace();

}

a. The compiler will report an error at statement marked with the comment #2 ×

b. The code snippet will compile without any errors

c. The compiler will report an error at statement marked with the comment #1

d. The compiler will report an error at statement marked with the comment #3
```

Your answer is incorrect.

The correct answer is:

The compiler will report an error at statement marked with the comment #3

:06 PM	OOPJ Mock CCEE - 1: Attempt review
Question 31	
Incorrect	
Mark 0.00 out of 1.00	
Which one of the following interfaces is empty (i.e., an	interface that does not declare any methods)?
<ul><li>b. java.lang.Comparator&lt;T&gt; interface</li></ul>	
o. java.util.concurrent.Callable <t> interface</t>	
od. java.lang.Cloneable interface	
The correct answer is: java.lang.Cloneable interface	
Question 32	
Incorrect	
Mark 0.00 out of 1.00	
Given this code snippet:	
	(FMPFP 4)
LocalDate dateOfBirth = LocalDate.of(1988,Month.NOVEMBER, 4);  MonthDay monthDay =MonthDay.of(dateOfBirth.getMonth(), dateOfBirth.getDayOfMonth());	
boolean ifTodayBirthday = monthDay.equals(MonthDay.from(LocalDate.now())); //COMPARE	
System.out.println(ifTodayBirthday? "Happy birthday!" :"Yet another day!");	
Assume that today's date is 4th November 2015. Choose the correct answer based on this code segment.	
■ a. This code will print: Yet another day!	
ob. This code will print: Happy birthday!	
o. When executed, this code will throw DateTime	Exception
Od. This code will result in a compiler error in the l	ine marked with the comment COMPARE

The correct answer is:

This code will print: Happy birthday!

```
Question 33
Incorrect
Mark 0.00 out of 1.00
```

```
1. What will be the output of the following program:
  2.
  3. public class Test {
  4. public static void main(String[] args) {
  5. int count = 1;
  6. while (count <= 15) {
  7. System.out.println(count % 2 == 1 ? "***" : "+++++");
  8. ++count;
  9.
      }
 10. }
 11. }
a. 15 times ***
b. 8 times *** and 7 times +++++
o. 15 times +++++
od. Both will print only once
```

The correct answer is:

8 times \*\*\* and 7 times +++++

```
Question 34
Incorrect
Mark 0.00 out of 1.00
```

```
Choose the correct option based on this program:

import java.util.stream.Stream;

public class Reduce {

    public static void main(String []args) {

        Stream words = Stream.of("one", "two", "three");

        int len = words.mapToInt(String::length).reduce(0, (len1, len2) → len1 + len2);

        System.out.println(len);

    }

    a. This program does not compile and results in compiler error(s)

    b. This program prints: onetwothree

    c. This program prints: 11

    d. This program throws an IllegalArgumentException
```

The correct answer is: This program prints: 11

# Question 35

Incorrect

Mark 0.00 out of 1.00

Which of the following classes in the java.util.concurrent.atomic package inherit from java.lang.Number?

- a. AtomicFloat 

  ★
- b. AtomicDouble
- o. AtomicBoolean
- od. AtomicInteger

The correct answer is: AtomicInteger

:06 PM	OOPJ Mock CCEE - 1: Attempt review
Question 3	6
Incorrect	
Mark 0.00 d	out of 1.00
DateTir // PARS DateTir System	his code segment: meFormatter fromDateFormat = DateTimeFormatter.ofPattern("MM/dd/yyyy"); SE_DATE meFormatter toDateFormat = DateTimeFormatter.ofPattern("dd/MMM/YY"); n.out.println(firstOct2015.format(toDateFormat)); one of the following statements when replaced with the comment PARSE_DATE will result in the code to print m/15"?
<ul><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul>	LocalTime firstOct2015 = LocalTime.parse("01/10/2015",fromDateFormat);  Period firstOct2015 = Period.parse("01/10/2015", fromDateFormat);  DateTimeFormatter firstOct2015 = DateTimeFormatter.parse("01/10/2015", fromDateFormat);  LocalDate firstOct2015 = LocalDate.parse("01/10/2015", fromDateFormat);
The cor	nswer is incorrect. rrect answer is: ate firstOct2015 = Loca Date.parse("01/10/2015", fromDateFormat);
Question 3 Incorrect Mark 0.00 c	
Stream	rill be the result of executing this code segment?  .of("ace ", "jack ", "queen ", "king ", "joker ").mapToInt(card -> card.length()).filter(len -> len > c(System.out::print).limit(2);  This code segment prints: jack queen **  This code segment prints: king joker  This code segment prints: jack queen king joker  This code segment does not print anything on the console

The correct answer is:

This code segment does not print anything on the console

```
Question 38
Incorrect
Mark 0.00 out of 1.00
```

The correct answer is:

The program will report a compilation error at statement marked with the comment #3

```
Question 39
Incorrect
Mark 0.00 out of 1.00
```

```
Consider the following program and choose the right option from the given list:
class Base {
   public void test() {
   protected int a = 10; // #1
   }
}
class Test extends Base { // #2
   public static void main(String[] args) { System.out.printf(null); // #3
   }
}
```

- a. The compiler will report errors at statement marked with the comment #3 \*
- b. The compiler will report an error at statement marked with the comment #2
- o. The compiler will report an error at statement marked with the comment #1
- od. The program will compile without any error

The correct answer is:

The compiler will report an error at statement marked with the comment #1

# Question 40

Incorrect

Mark 0.00 out of 1.00

Which of the following is NOT a problem associated with thread synchronization using mutexes?

- a. Lock starvation X
- b. Livelock
- o. Deadlock
- d. Type erasure

The correct answer is: Type erasure