Java Midterm Part A

Due Mar 7 at 3pm   **Points** 600   **Questions** 73
Time Limit 50 Minutes

Instructions

Exam Instructions: TIME LIMITED, AUTO-SUBMIT, AUTO-GRADING YOUR VIDEO MUST BE ON IF ONLINE!

READ CAREFULLY AND ANSWER EACH QUESTION ONE AT A TIME! NO GOING BACK!!!

CANVAS IS SIMPLE: FILL IN BLANK WITHOUT ANY EXTRA CHARACTERS OR SPACES and CORRECT spelling.

Read each question carefully and select the best choice or choices which answer that question.
Answer all questions within the time allotted.
Some questions have more than one correct answer. There is no credit for a partially answered question.
You may use your Eclipse IDE (or other instructor approved IDE).
You may not use any other materials UNLESS OTHERWISE INSTRUCTED BY THE INSTRUCTOR OR T.A.

You may NOT have any discussions with anyone except the instructor or T.A..

Taking this exam outside of these parameters will result in disqualification and a grade of zero.

Answer all questions.

EXAM WILL AUTO SUBMIT AFTER ALLOTTED TIME EXPIRES.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	24 minutes	526.67 out of 600

Score for this quiz: **526.67** out of 600

Submitted Mar 7 at 2:24pm

This attempt took 24 minutes.

Question 1   20 / 20 pts

```
/**
 *
 * CAREFULLY EXAMINE the code fragment given below (where
Electronics implements ItemAPI) for CORRECT Object Oriented
Design,

        then Fill IN THE BLANK with EITHER:

        the LINE NUMBER of the java statement which needs to be
corrected

        OR the words:

            NO ERRORS:
 *
1      List < ItemAPI > list = new ArrayList<>(

2          Arrays.asList(

3              new Electronics(1,"Sharp HDTV",999.99),

4              new Electronics(2,"HP Laptop",399.99),

5              new Electronics(3,"Apple iPad mini", 499.99)

6      ));
7      System.out.println(list.size() + " Electronic items in list.");
8      for (Electronics e : list) {
9          System.out.print(e +" ");
10     }
11      System.out.println();
```

```
*
*/
```

Correct!

```
8
```

orrect Answers   8

That is correct!

Question 2   **10 / 10 pts**

FILL IN THE BLANK with the LINE NUMBER of the INCORRECT
(Compiler Error) line of java code:
1. List<String> names1 = new ArrayList<>();
2. List<> names2 = new ArrayList<String>();
3. ArrayList<String> names3 = new ArrayList<String>();

Correct!

```
2
```

orrect Answers   2

That is correct!

Question 3

0 / 10 pts

Select the answer which best describes the following three lines of java code:
1. List<> numbers1 = new ArrayList<>();
2. List<double> numbers2 = new ArrayList<>();
3. ArrayList<> numbers3 = new ArrayList<double>();

⟩rrect Answer

○ None of the three Java statements are correct.

○ Java statement 1 is correct.

⟩u Answered

◉ Java statement 2 is correct.

○ Java statement 3 is correct.

○ All three Java statements are correct.

No, that is not correct.

Question 4

10 / 10 pts

When instantiating a HashMap class for an associative container, BEST PRACTICE is to define the variable as type _____.

Correct!

Map

rrect Answers

Map

java.util.Map

Map<>

Yes, that is correct!

Question 5

10 / 10 pts

When instantiating an ArrayList class for a sequential container, BEST PRACTICE is to define the variable as type _____.

Correct!

List

rrect Answers

List

java.util.List

List<>

Yes, that is correct!

Question 6

5 / 5 pts

A Java interface specifies one or more methods and instance variables to be used in your class.

True

Correct!   False

Yes, that is correct!

Question 7   **7.5 / 10 pts**

In Java, you accomplish abstraction (i.e. data and functionality hiding to hide design details) by use of:

Correct!   ☑ Abstract class

orrect Answer   ☐ Singleton Design Pattern

Correct!   ☑ Commercial API

Correct!   ☑ factory method design pattern

                     ☐ none of these are correct.

Question 8   **10 / 10 pts**

In Java, you accomplish abstraction (i.e. data and functionality hiding to hide design details) by use of:

Correct!   ☑ Interface

Correct!   ☑ Factory Design Pattern

Correct!   ☑ Superclass

                      ☐ none of these are correct.

> Yes, that is correct.!

Question 9   10 / 10 pts

If my multithreaded code required a sequential container, I would use the _____ class.

Correct!

Vector

orrect Answers

Vector

java.util.Vector

Vector<>

> Yes, that is correct!

Question 10   10 / 10 pts

FILL IN BLANK WITH ONE WORD SPELL LIKE CODE: What is never required for polymorphism but should always be in the derived class implementing polymorphism?

Correct!

> @Override

orrect Answers   @Override

> Yes, you are correct!

Question 11   10 / 10 pts

FILL IN EACH BLANK WITH ONE WORD SPELL LIKE CODE: If my class needs to execute code on an additional thread, I would use the

> runnable   interface   .

Answer 1:

Correct!   Runnable

orrect Answer   interface

Answer 2:
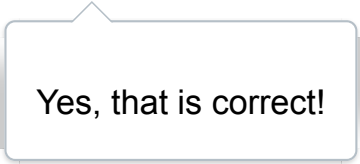
Correct!   interface

rrect Answer   Runnable

> Yes, that is correct!

Question 12   10 / 10 pts

What is another name for class method?

Correct!   ☑ operation

Correct!   ☑ function

          ☐ charateristic

          ☐ script

> That is correct!

Question 13   10 / 10 pts

In Java, you accomplish abstraction (i.e. data and functionality hiding to hide design details) by use of:

Correct!   ☑ Interface

Correct!   ☑ private helper member functions

Correct!   ☑ Abstract class

                        ☐ none of these answers are correct.

Yes, that is correct1

Question 14   10 / 10 pts

In a class, What comprises the API for using that class?

○ All data in class

○ All methods in class.

○ All static methods in class.

Correct!   ◉ None of these answers are correct.

Yes, that is correct!

Question 15   10 / 10 pts

What another name used for class data?

Correct!   ☑ Field

Correct!   ☑ Attribute

                   ☐ form

                   ☐ text

                   ☐ all of these

That is correct!

Question 16   10 / 10 pts

In UML, another term for Inheritance is _____.

Correct!   Generalization

Correct Answers   Generalization

Yes, that is correct!

Question 17

10 / 10 pts

What is another name for Superclass?

Correct!

☑ Parent class

Correct!

☑ Base class

☐ General class

☐ all of these.

That is correct!

Question 18

10 / 10 pts

What is another name for subclass?

Correct!

☑ Child class

Correct!

☑ Derived class

☐ general class

☐ all of these

That is correct!

Question 19

5 / 5 pts

field is a Java primitive type.

○ True

Correct!

◉ False

You are correct!

Question 20

5 / 5 pts

int is a Java primitive type.

Correct!

◉ True

○ False

You are correct!

Question 21

5 / 5 pts

String is a Java primitive type.

○ True

Correct!

◉ False

You are correct!

Question 22

0 / 5 pts

byte is a Java primitive type.

rrect Answer

○ True

u Answered

◉ False

Sorry, you are not correct.

Question 23

5 / 5 pts

boolean is a Java primitive type.

Correct!

◉ True

○ False

You are correct!

Question 24

5 / 5 pts

float is a Java primitive type.

Correct!

◉ True

○ False

You are correct!

Question 25   **5 / 5 pts**

double is a Java primitive type.

Correct!

   ◉ True

   ○ False

You are correct!

Question 26   **5 / 5 pts**

Integer is a Java primitive type.

   ○ True

Correct!

   ◉ False

You are correct!

Question 27   5 / 5 pts

long is a Java primitive type.

Correct!

- ● True

- ○ False

You are correct!

Question 28   5 / 5 pts

bit is a Java primitive type.

- ○ True

Correct!

- ● False

You are correct!

Question 29   5 / 5 pts

short is a Java primitive type.

Correct!

◉ True

○ False

You are correct!

Question 30   5 / 5 pts

A Java class is like a complete blueprint and is used to instantiate a
Java object.

Correct!

◉ True

○ False

You are correct!

Question 31   5 / 5 pts

number is a Java primitive type.

○ True

Correct!
◉ False

You are correct!

Question 32   0 / 10 pts

A Java interface is like a complete blueprint and is used to instantiate a Java object.

ou Answered
◉ True

orrect Answer
○ False

Sorry, that is not correct.

Question 33

5 / 5 pts

A Java class essentially consists of data and the methods that operate on that data.

Correct!

- ◉ True

- ○ False

You are correct!

Question 34

5 / 5 pts

A Java abstract class is like a complete blueprint and is used to instantiate a Java object.

- ○ True

Correct!

- ◉ False

You are correct!

Question 35

0 / 5 pts

A Java interface contains abstract methods.

orrect Answer

○ True

ou Answered

⦿ False

Sorry, that is not correct.

Question 36

5 / 5 pts

A Java interface in another name for an abstract class.

○ True

Correct!

⦿ False

You are correct!

Question 37

5 / 5 pts

There are only eight (8) Java primitive types.

Correct!

◉ True

○ False

You are correct!

Question 38

5 / 5 pts

A Java abstract class may contains both abstract and concrete methods.

Correct!

◉ True

○ False

You are correct!

Question 39   10 / 10 pts

Fill in the blank.

If we want our Policeman class to inherit from our Person class we would code the Policeman class as follows:

public class Policeman _____ Person { ...

Correct!

```
extends
```

Correct Answers   extends

You are correct!

Question 40   10 / 10 pts

Fill in the blank.

If we want our LectureRoom class to conform to our ClassRoomAPI interface we would code the LectureRoom class as follows:

public class LectureRoom _____ ClassRoomAPI { ...

Correct!

implements

rrect Answers   implements

You are correct!

Question 41   10 / 10 pts

Fill in the blank to complete the java statement.

List<_____> myList = new ArrayList<>();

myList.add('d');

Correct!

Character

rrect Answers   Character

You are correct!

Question 42   10 / 10 pts

How can a Java class provide for data encapsulation?

Correct!   ☑   make class data private

Correct!   ☑   provide public class methods to operate on class data.

              ☐   declare abstract methods

              ☐   all of these

That is correct!

Question 43   0 / 5 pts

FILL IN THE BLANK WITH A SINGLE WORD JUST LIKE CODE: Every Java class is a subclass of the which class?

You Answered

Parent

Correct Answers   Object

Sorry, that is not correct.

Question 44   10 / 10 pts

FILL IN THE BLANK JUST LIKE CODE: The DEFAULT class constructor method for our Policeman class is _____.

Correct!

Policeman()

orrect Answers

Policeman()

You are correct!

Question 45

10 / 10 pts

Fill in the blank.

Declare a collection to contain the last names of all our classmates.

List<_____> names = new ArrayList<_____>();

Correct!

String

orrect Answers

String

List<String> names = new ArrayList<String>()

String and String

String,String

String, String

You are correct!

Question 46

10 / 10 pts

Advantages of using an Object Oriented design include:

Correct!

☑ modularity

Correct!

☑ code re-use

☐ improved performance

☐ all of these

That is correct!

Question 47

10 / 10 pts

Fill in the blank JUST LIKE CODE.

TO Declare a collection to contain whole numbers like 1, 2, 3, 4, etc.
WE MUST CODE A PARAMETERIZED TYPE OF?

e.g., List<_____> numbers = null;

Correct!

Integer

orrect Answers

Integer

You are correct!

Question 48

10 / 10 pts

Fill in the blank JUST LIKE CODE with the ONE data type required to be used

.

List<_____> library = library = new ArrayList<>();

library.add("MacBeth");

library.add("Othello");

library.add("Romeo and Juliet");

Correct!

String

orrect Answers

String

You are correct!

Question 49

5 / 5 pts

Every Java Library class is a subclass of the Object class.

Classes we create ourselves are not a subclass of the Object class.

○ True

Correct!

◉ False

You are correct!

Question 50

10 / 10 pts

Overriding the Object toString() method is an example of polymorphisim.

◉ True

Correct!

○ False

You are correct!

Question 51   10 / 10 pts

What is the advantage of using an ArrayList collection class over an array to hold items?

Correct!   ☑ ArrayList can grow in size

Correct!   ☑ ArrayList can shrink in size

                  ☐ ArrayList has a smaller memory footprint.

                  ☐ all of these

That is correct!

Question 52   5 / 10 pts

To instantiate a collection object you must:

Correct!   ☑ Declare the type of the collection

Correct!   ☑ Declare the type of the collection contents

ou Answered   ☑ Declare the size of the collection.

                  ☐ all of these.

Question 53

10 / 10 pts

What is the advantage of using an array over an ArrayList collection class to hold items?

☐ array can grow in size

☐ array can shrink in size

Correct!

☑ array has a smaller memory footprint.

☐ all of these

That is correct!

Question 54

10 / 10 pts

To instantiate an object you must:

Correct!

☑ Use the class constructor

Correct!

☑ Use the "new" keyword

☐ code the class constructor

☐ all of these.

That is correct!

Question 55   10 / 10 pts

What is function overriding?

Correct!

⦿ If a subclass provides its own specific implementation of an identical method provided by the parent class, it is known as method overriding.

○ If a subclass provides its own specific implementation (including additional parameters) of a method provided by the parent class, it is known as method overriding.

○ all of these.

○ none of these.

Question 56   5 / 5 pts

When programming in Java, using Object Oriented Programming is supported but not required.

○ True

Correct!

◉ False

That is correct!

Question 57   10 / 10 pts

To use a Java class in your program, you must:

☐ Use the keyword 'new'

☐ Use the class constructor

☐ all of these

Correct!

☑ none of these.

That is correct!

Question 58   6.67 / 10 pts

Which of the following is true about the super class:

orrect Answer

☐ Variables, methods and constructors which are declared private can be accessed only by the members of the super class.

Correct!

☑ Variables, methods and constructors which are declared protected can be accessed by any subclass of the super class.

Correct!

☑ Variables, methods and constructors which are declared public in the superclass can be accessed by any class.

☐ none of these are true

Question 59   5 / 5 pts

Because of its byte codes, Java is an interpreted language just like JavaScript.

○ True

Correct!

⦿ False

Yes, that is correct!

Question 60   5 / 5 pts

Java supports multiple inheritance.

○ True

Correct!   ◉ False

Yes, that is correct!

Question 61   10 / 10 pts

FILL IN THE BLANK (spell just like when you code with no extra spaces) When deriving sub-classes (i.e., a child class inherits from a parent class), what is NOT required but is ALWAYS recommended you use and does not effect code execution.

Correct!   @Override

orrect Answers   @Override

Yes, that is correct!

Question 62

10 / 10 pts

Select the TRUE statements. The GoF Singleton design pattern is ALWAYS implemented with:

Correct!

- ◉ static method

- ○ no constructor

- ○ implicit compiler provided default class constructor

- ○ one single design pattern

Yes, that is correct!

Question 63

10 / 10 pts

To use an API, you MUST use the following Object Oriented Principles

Correct!

- ☑ abstraction

- ☐ encapsulation

Correct!

- ☑ inheritance

Correct!

- ☑ polymorphism

Yes, that is correct!

Question 64

10 / 10 pts

To implement loose coupling you MUST use the following Object Oriented principles:

Correct!

☑ abstraction

☐ encapsulation

Correct!

☑ inheritance

Correct!

☑ polymorphism

Yes, that is correct!

Question 65

10 / 10 pts

The Simple factory pattern BREAKS which S.O.L.I.D. design principles.

Correct!

☑ Open Closed principle

Correct!

☑ Single Responsibility principle

☐ Interface Segregation principle

☐ Dependency Inversion principle

Yes, that is correct!

Question 66　　　　5 / 5 pts

The Singleton design pattern is a:

Correct!

☑ creational pattern

☐ behavioral pattern

☐ structural pattern

☐ organizational pattern

Yes, that is correct!

Question 67　　　　5 / 5 pts

Using Design Patterns in your software design:

Correct!

☑ improves code readability

Correct!

☑ improves code testability

☐

increases software development costs to reduce software development time

☐

lengthens code development cycles as more lines of code must be written

Yes, that is correct!

Question 68   **10 / 10 pts**

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

The preceding Java statement CLEARLY implements the following Object Oriented principles:

Correct!

☑ Abstraction

Correct!

☑ inheritance

☐ encapsulation

Correct!

☑ polymorphism

Yes, that is correct!

Question 69   **5 / 10 pts**

ArrayList<String> names = new ArrayList<>(); The preceding Java
statement CLEARLY fails to demonstrate the following Object Oriented
principles:

Correct!

☑ abstraction

☐ encapsulation

ou Answered

☑ inheritance

Correct!

☑ polymorphism

Question 70   **0 / 10 pts**

When writing Java code, a Lambda express must target WHAT (fill in
the correct annotation WITH @)

ou Answered

@FunctionalInheritence

orrect Answers   @FunctionalInterface

Sorry, that is not correct.

Question 71   5 / 5 pts

FILL IN THE BLANK (spelling counts ALL LOWERCASE LETTERS WITH NO EXTRA SPACES OR CHARACTERS) When coding in Java, which Object Oriented principle is ALWAYS employed?

Correct!

inheritance

orrect Answers   inheritance

Yes, that is correct!

Question 72   7.5 / 10 pts

Given the following Java statement CODED WITH BEST PRACTICES, SELECT ALL SELECTIONS WHICH ARE TRUE:
Person dan = Factory.getInstance().getObject();

Correct!   ☑ getInstance() is a static method

☐ getObject() is a static method

Correct!   ☑ We are using a Singleton

Correct!   ☑ We have an implementation of the factory Method pattern

rrect Answer ☐ Dan is NOT assigned a reference to a Person object

Question 73   0 / 10 pts

Select ALL CORRECT ANSWERS. Given the following Java code, what is the data type of the reference variable names?

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

Correct!   ☑ List

ou Answered ☑ ArrayList

ou Answered ☑ Object

☐ Collections

☐ None of these are correct answers

Sorry, that is not correct.

Quiz Score: **526.67** out of 600

Midterm interview

Due Mar 7 at 3pm   **Points** 100   **Questions** 5   **Time Limit** 10 Minutes

Instructions

READ CAREFULLY and Answer ALL questions within the allotted time as exam auto-submit and self-grade upon time expiring.
SINGLE ATTEMPT ONLY NO GOING BACK.

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	4 minutes	40 out of 100

⚠ Correct answers are hidden.

Score for this quiz: **40** out of 100
Submitted Mar 7 at 2:30pm
This attempt took 4 minutes.

Incorrect	**Question 1**	**0 / 20 pts**

FILL IN THE BLANK (spell just like when you code with NO EXTRA SPACES OR CHARACTERS). If you want to design your class to use WITHOUT CREATING AN OBJECT, what keyword MUST you use?

instanceOf   static

Sorry, that is not correct.

Question 2

20 / 20 pts

FILL IN THE BLANK (ALL LOWERCASE, spell just like when you code with NO EXTRA SPACES OR CHARACTERS). Fill in the name of the **Object Oriented Principle** which explains why I can *assign* a reference variable **type Object** with a reference to a **Driver** object, e.g., **Object obj = new Driver();**

inheritance

Yes, that is correct.

Question 3

20 / 20 pts

FILL IN THE BLANK (ALL LOWERCASE, spell just like when you code with NO EXTRA SPACES OR CHARACTERS). Fill in the name of the Object Oriented Principle which explains why I can execute Driver's implementation of toString() when using a reference variable type Object assigned with a reference to a Driver object, e.g., Object obj = new Driver();

Polymorphism

polymorphism

Yes, that is correct.

Incorrect

Question 4

0 / 20 pts

In Java, When is a class constructor called?

☑ When an object is referenced

☑ When an object created from a class using the keyword new   only this option is correct

☐ When using the class keyword to define a class

☐ When an object created from a class

Sorry, that is not correct.

Incorrect

Question 5

0 / 20 pts

To reduce software development costs and increase useful lifetime

which Object Oriented Principles must you heavily leverage in your design?

all options are correct

- ☑ polymorphism

- ☑ abstraction

- ☐ in

- ☑ encapsulation

Sorry, that is not correct.

Quiz Score: **40** out of 100

Stream Quiz

Due Apr 4 at 3:35pm   **Points** 100   **Questions** 2
Time Limit 5 Minutes

Instructions

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question.
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OR T.A.

You may NOT have any discussions with anyone except the instructor or T.A..

Taking this exam outside of these parameters will result in disqualification and a grade of zero.

Answer all questions.

EXAM WILL AUTO SUBMIT AFTER ALLOTTED TIME EXPIRES.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	5 minutes	100 out of 100

Score for this quiz: **100** out of 100
Submitted Apr 4 at 3:26pm
This attempt took 5 minutes.

Question 1   **50 / 50 pts**

List<Integer> nList = new ArrayList<>(Arrays.asList(3,5,1,4,2));

// SCALE x 10 ODD numbers, show on console ONE LINE, comma separated , DESCENDING order (50, 30, 10,) ...

nList.Stream

.filter

.sorted

.map

.forEach

FOR THE PRECEDING CODE SEGMENT TO OUTPUT DATA AS SPECIFIED IN CODE COMMENT, Set up a Stream API pipeline by MATCHING Stream operation with it's argument:

e.g.,   LEFT SIDE   RIGHT SIDE

          .foreEach   System.out::println

Correct!	**.forEach**	(e) -> System.out.print(e ▼
Correct!	**.filter**	e -> e%2 == 1 ▼
Correct!	**.map**	e -> e*10 ▼
Correct!	**.sorted**	Comparator.reverseOrd ▼

Other Incorrect Match Options:

- (e) -> e%2 == 2
- Comparator.reverseOrder(null)
- System.out.println()
- System.out::println
- () -> 10
- (e) -> e/2 == 1
- null
- () -> e*10
- e -> e/2 = 1
- e -> e%2 = 1
- Comparator.comparing(null)
- Comparator.reverse
- Comparator.comparing(reverse)
- No argument
- System.out::print

Yes, that is correct!

Question 2

50 / 50 pts

List<Integer> nList = new ArrayList<>(Arrays.asList(3,5,1,4,2));

// SCALE x 101 EVEN numbers, show on console ONE LINE, comma separated , ASCENDING order (202, 404,) ...

nList.Stream

.filter

.sorted

.map

.forEach

FOR THE PRECEDING CODE SEGMENT TO OUTPUT DATA AS
SPECIFIED IN CODE COMMENT, Set up a Stream API pipeline by
MATCHING Stream operation with it's argument:

e.g.,   LEFT SIDE   RIGHT SIDE

          .foreEach   System.out::println

Correct!   **.forEach**   (e) -> System.out.print(e   ⬍

Correct!   **.filter**   e -> e%2 == 0   ⬍

Correct!   **.map**   e -> e*101   ⬍

Correct!   **.sorted**   no argument   ⬍

Other Incorrect Match Options:
- (e) -> e/2 == 2
- () -> 101
- Comparator.reverse
- System.out::println
- Comparator.reverseOrder(null)
- e -> e%2 = 1
- Comparator.comparing(null)
- System.out.println()
- Comparator.comparing(reverse)
- System.out::print
- (e) -> e%2 == 2
- () -> e*101

- null
- Comparator.reverseOrder()
- e -> e/2 = 2

Yes, that is correct!

Quiz Score: **100** out of 100

Java Final Part A-1

Due Apr 25 at 2:30pm   **Points** 190   **Questions** 19
Time Limit 20 Minutes

Instructions

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EXAM WILL AUTO SUBMIT AFTER ALLOTTED TIME EXPIRES.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	11 minutes	121.67 out of 190

Score for this quiz: **121.67** out of 190
Submitted May 2 at 2:37pm
This attempt took 11 minutes.

Question 1		**10 / 10 pts**

Which of the following are object-oriented principles?

Correct!

☑ Encapsulation

☐ Overload

☐ Overwrite

Correct!

☑ Inheritance

That is correct!

Question 2		**0 / 10 pts**

The scope of access modifiers from largest to smallest is:

○ private-protected-default-public

ɔu Answered

◉ private-default-protected-public

○ public-default-protected-private

rrect Answer   ○ public-protected-default-private

No, that is not correct.

Question 3   0 / 10 pts

Exceptions defined by the Error class cannot be caught.

rrect Answer   ○ True

u Answered   ◉ False

No, that is not correct.

Question 4   0 / 10 pts

In Java Swing, _____ class works like the main window where components like labels, buttons, textfields are added to create a GUI.

ou Answered

> Frame

rrect Answers　　JFrame

No, that is not correct.

Question 5　　　　　　　　　　　　　　　　10 / 10 pts

Which of the following can be added to ComputerBook without error?

class Book{

   protected int getPrice(){

     return 30;

   }

}

public class ComputerBook extends Book{

}

☐　protected float getPrice(){}

☐　protected int getPrice(int page){}

☐　int getPrice(){}

Correct!　　☑　public int getPrice(){return 10;}

Yes, that is correct!

Question 6

10 / 10 pts

Which of the following identifier(s) is/are illegal?

Correct!
☑ new

☐ $Usdollars

Correct!
☑ 1234

Correct!
☑ car.taxi

Yes, that is correct!

Question 7

10 / 10 pts

The output result is: _____.

```
Integer x=23456;
```

```
System.out.println(x.toString().substring(2,4));
```

Correct!

45

Correct Answers   45

Yes, that is correct!

Question 8   **10 / 10 pts**

Creating threads by implementing the Runnable interface or

inheriting the Thread class.

Answer 1:

Correct!   Runnable

Correct Answer   runnable

Answer 2:

Correct!   Thread

Correct Answer   thread

Yes, that is correct!

Question 9   5 / 10 pts

Which of the following description(s) of network communication is/are correct?

☐ TCP/IP is unreliable

rrect Answer

☐ UDP is unreliable

Correct!

☑ TCP is reliable

☐ UDP is reliable

Question 10   0 / 10 pts

```
1.class Student{
2.    private String name; private int age;
3.    public Student(){}
4.   public void setName(String name){ this.name=name; }
5.   void setAge(int age){ this.age= age; }
6.}
```

```
7.public class StudentTest{

8.    public void static main(String[] args){

9.        Student s = new Student();

10.       s.name = "Hellen";

11.       s.setAge(20);

12.    }

13.}
```

Which two lines are incorrect? `3` `5`

(answer in order)

Answer 1:

<div>ou Answered</div>

> 3

<div>orrect Answer</div>

8

Answer 2:

<div>ou Answered</div>

> 5

<div>orrect Answer</div>

10

No, that is not correct.

Question 11

10 / 10 pts

Another name for Lambda is :

Correct!

closure

Correct Answers

Closure

closure

Question 12

0 / 10 pts

Recursion cannot be employed instead of loops to avoid mutable data: True/False

You Answered

◉ True

Correct Answer

○ False

Question 13

10 / 10 pts

In Java, Multiple inheritance supported ONLY for Interfaces: True/False

Correct!

◉ True

○ False

Question 14

10 / 10 pts

Select all the functions that falls under the QUEUE API :

Correct!

☑ Size

☐ Push

Correct!

☑ isEmpty

☐ Pop

Correct!

☑ Peek

Question 15

6.67 / 10 pts

Select all the correct answers, how do threads communicate with each other?

Correct!

☑ wait()

☐ Notifyall()

Correct!

☑ notifyAll()

orrect Answer

☐ notify()

Question 16   0 / 10 pts

Torrent implements _____ protocol?

ou Answered

> TCP

rrect Answers

UDP (User Data Protocol)

UDP

User Data Protocol

User data protocol

user data protocol

User Data

user data

User data

Question 17   10 / 10 pts

```java
public class LambdaDemo {
    @FunctionalInterface
    public interface GreatDivide {
    float divide(int t1, int t2);
  }
    public static void simpleLambda() {
    GreatDivide intDivide = (int x, int y) -> x / y;
    System.out.println(intDivide.divide (44, 8));
  }
    public static void main(String[] args) {
```

```
      simpleLambda();
  }
    }
```

Correct!

⊙ 5.0

○ 5

○ Runtime Error

○ Compile Error

Question 18   **10 / 10 pts**

If you try to run the thread twice, then what is the error you will see on the console?

○ Compile Error

Correct!

⊙ Runtime Exception

○ Runtime Error

○ Thread runs twice

Question 19   **10 / 10 pts**

Select all the correct OSI (Open Systems Interconnect) layers :

Correct!

☑ Application

Correct!

☑ Session

☐ Internet

Correct!

☑ Network

Quiz Score: **121.67** out of 190

Java Final Interview

Due May 2 at 2:10pm   **Points** 100   **Questions** 8
Time Limit 5 Minutes

Instructions

Exam Instructions: 5 MINUTE TIME LIMIT, ONE QUESTION AT A TIME, NO GOING BACK

Read each question carefully and select the best choice or choices which answer that question.
Answer all questions within the time allotted.
Some questions have more than one correct answer. There is no credit for a partially answered question.
You may use your Eclipse IDE (or other instructor approved IDE).
You may not use any other materials or have any discussions with anyone except the instructor.

Taking this exam outside of these parameters will result in disqualification and a grade of zero.

Answer all questions.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	4 minutes	100 out of 100

Score for this quiz: **100** out of 100
Submitted May 2 at 2:05pm
This attempt took 4 minutes.

Question 1	20 / 20 pts

Choose the answer which is the BEST description for the following
code:

```
package edu.neu.csye6200;

public class Driver {

    public static void main(String[] args) {
        System.out.println(this);
    }

}
```

○ Calls Driver.toString();

Correct!

⦿ Bad code.

That is correct!

○ Good code.

○ Calls Object.toString();

Yes, this is bad code because the this pointer is not available in static methods.

Question 2	**10 / 10 pts**

Choose the selection with the code WITH an OBVIOUS coding ERROR?

Correct!

⦿ List<> names = new ArrayList<String>();

That is correct!

○ ArrayList<String> names = new ArrayList<String>();

○ List<String> names = new ArrayList<>();

○ List<String> names = new ArrayList<String>();

Question 3

10 / 10 pts

When programming in Java, which of the Object Oriented Design Principles is ALWAYS used?

Correct!

◉ Object Oriented Inheritance principle

That is correct!

○ Object Oriented Encapsulation principle

○ Object Oriented Abstraction principle

○ Object Oriented Polymorphism principle

Question 4

15 / 15 pts

Choose the CHOICE which is the BEST description the following code:

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

○ Code demonstrates Object Oriented Inheritance principle.

○ Code demonstrates Object Oriented Abstraction principle.

Correct!

◉ All the choices are BEST.

> Tthat is correct!

○ Code demonstrates Object Oriented Polymorphism principle.

Question 5   10 / 10 pts

new Thread(() -> System.out.println("Hello there!")).start();

Given the preceding Java statement,

FILL IN THE BLANK with the MOST PRECISE AND CORRECT data type

of the argument which is passed to the constructor (in the preceding Java statement):

Correct!

> Runnable

> That is correct!

Correct Answers   Runnable

the class constructor for the Thread class accepts an argument
of data type Runnable

Question 6   10 / 10 pts

Given the following code fragment:

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

Choose, from the following, the most appropriate answer or answers.

SELECT WHICH S.O.L.I.D. design principles this java code statement
CLEARLY AND OBVIOUSLY demonstrates.

Correct!   ☑ Liskov substitution principle

                  ☐ Interface Segregation Principle

Correct!   ☑ Open Closed principle;

Correct!   ☑ Dependency Inversion principle

                  ☐ Sole Responsibility Principle

Yes, that is correct!

Question 7　　　　　　　　　　　　　　　　15 / 15 pts

Which Solid Design principles does the Simple Factory Pattern, not the
Gang of Four Factory (GoF) design pattern), CLEARLY violate?

☐ Interface Segregation Principle

Correct!　　☑ Liskov Substitution principle

Correct!　　☑ Sole Responsibility Principle

Correct!　　☑ Dependency Inversion principle

Correct!　　☑ Open Closed principle

Yes, that is correct!

The Simple Factory design pattern differs from the GoF Factory
design pattern in that it one class is responsible for the creation
of more than one derived class. The GoF Factory design pattern
uses one class for the creation of only one derived class.

Question 8　　　　　　　　　　　　　　　　10 / 10 pts

package edu.neu.csye6200;

public class Driver {

    public static void main(String[] args) {

```
        System.out.println(new Driver());
    }

}
```

Given the above Driver class, which Object Oriented Design principle is most clearly and OBVIOUSLY demonstrated?

☐ Polymorphism

☐ Encapsulation

☐ Abstraction

Correct!

☑ Inheritance

Yes, that is correct!

Quiz Score: **100** out of 100

API

Due No due date	**Points** 100	**Questions** 7	**Time Limit** 20 Minutes

Instructions

- READ CAREFULLY AND ANSWER EACH QUESTION ONE AT A TIME!

- THERE IS NO GOING BACK TO PREVIOUS QUESTIONS!

- EXAM WILL SUBMIT AUTOMATICALLY AND GRADE, AFTER ALLOTTED TIME EXPIRES.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	6 minutes	100 out of 100

Score for this quiz: **100** out of 100
Submitted Feb 28 at 4:19pm
This attempt took 6 minutes.

Question 1	20 / 20 pts

FILL IN THE BLANK (spell just like when you code with NO EXTRA SPACES OR CHARACTERS)

Generally, what do you use to implement an API in Java which will restrict your implementation the very least?

Correct!

> interface

Correct Answers   interface

Yes, that is correct!

Question 2

10 / 10 pts

In Java how many fundamentally different ways can you implement a productive API?

- ○ 1

- ○ 2

Correct!

- ◉ 3

- ○ 4

- ○ 5

That is correct!

Question 3

10 / 10 pts

FILL IN THE BLANK (ALL LOWERCASE with NO EXTRA SPACES OR CHARACTERS). When implementing any productive API, what is the relationship between the API and the class implementing it (AND DO

NOT TYPE THE WORD RELATIONSHIP)?

Correct!

is-a

rrect Answers

inheritance

is-a

generalization

Yes, that is correct!

Question 4   **10 / 10 pts**

FILL IN THE BLANK (spell just like when you code with NO EXTRA SPACES OR CHARACTERS).

If you write class Driver, which API do you use to demonstrate polymorphism?

Correct!

Object

rrect Answers

Object

That is correct!

Question 5   10 / 10 pts

FILL IN THE BLANK (spell just like when you code with NO EXTRA SPACES OR CHARACTERS).

If you write class Driver, which method can you override to demonstrate polymorphism?

Correct!

| toString() |

orrect Answers   toString()

That is correct!

Question 6   30 / 30 pts

When implementing any productive API, which Object Oriented principles are required to be used?

Correct!   ☑ Inheritance

Correct!   ☑ Abstraction

                  ☐ Encapsulation

Correct!   ☑ Polymorphism

☐ API

☐ All of these are correct answers

☐ None of these are correct answers

That is correct!

Question 7

10 / 10 pts

FILL IN THE BLANK (spell just like when you code with NO EXTRA SPACES OR CHARACTERS).

If class Child inherits from class Parent and overrides Parent's whoAmI() method, what is the datatype of the productive (just like in commercial software) API for executing the child version of the method whoAmI()?

Correct!

Parent

rrect Answers   Parent

That is correct!

Quiz Score: **100** out of 100

Exam 2

Due No due date	**Points** 100	**Questions** 7	**Time Limit** 30 Minutes

Instructions

READ CAREFULLY AND **ANSWER EACH QUESTION ONE AT A TIME!**
THERE IS **NO GOING BACK** TO PREVIOUS QUESTIONS!
EXAM WILL AUTO SUBMIT AFTER ALLOTTED TIME EXPIRES.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	3 minutes	100 out of 100

⚠ Correct answers are hidden.

Score for this quiz: **100** out of 100
Submitted Apr 11 at 3:58pm
This attempt took 3 minutes.

Question 1	**10 / 10 pts**

FILL IN THE BLANK (spell just like when you code with NO EXTRA SPACES OR CHARACTERS)

When executing any Java program, which method is ALWAYS executed (DO NOT TYPE THE PARENTHESIS "( )", JUST TYPE THE METHOD NAME)?

main

Yes, that is correct!

Question 2   10 / 10 pts

FILL IN THE BLANK (spell just like when you code with NO EXTRA
SPACES OR CHARACTERS)

In Java code, which Class is ALWAYS included?

Object

Yes, that is correct!

Question 3   10 / 10 pts

5. FILL IN THE BLANK (SPELL CORRECTLY using all LOWERCASE
characters and NO OTHER ADDITIONAL CHARACTERS OR
SPACES)

Which Object Oriented Principle is ALWAYS used in Java?

inheritance

Yes, that is correct!

Question 4   20 / 20 pts

FILL IN THE BLANKS (SPELL CORRECTLY using all LOWERCASE
characters and NO OTHER ADDITIONAL CHARACTERS OR
SPACES) When creating an object in Java, what is typically required?

new   constructor

Answer 1:

new

Answer 2:

constructor

Yes, that is correct!

Question 5   15 / 15 pts

FILL IN THE BLANK (spelling counts ALL LOWERCASE LETTERS WITH NO EXTRA SPACES OR CHARACTERS) When coding in Java, which Object Oriented principle is (by default) ALWAYS completely and totally available to be employed but is initially restricted in another Object Oriented Language?

polymorphism

Yes, that is correct!

Question 6   15 / 15 pts

FILL IN THE BLANK (spelling counts ALL LOWERCASE LETTERS WITH NO EXTRA SPACES OR CHARACTERS)

When coding in Java, the use of which Object Oriented principle is deliberately restricted when compared to another Object Oriented Language?

inheritance

Yes, that is correct!

Question 7   20 / 20 pts

Given the following Java statement (which is coded using best
practices), SELECT ALL SELECTIONS WHICH ARE MOST LIKELY
TRUE:

List<String names = Factory.getInstance().getObject();

☑ We have an implementation of the factory Method pattern

☐ getObject() is a static method

☐ we are assigning a reference to an ArayList<String>

☑ We are using a Singleton

☑ getInstance() is a static method

Yes, that is correct!

Quiz Score: **100** out of 100

⚠ **This quiz has been regraded; your score was affected.**

Exam1

Due No due date   **Points** 100   **Questions** 10
Time Limit 30 Minutes

Instructions

Answer correctly and completely within the allotted time.

Attempt History

	Attempt	**Time**	**Score**	**Regraded**
LATEST	Attempt 1	20 minutes	96.67 out of 100	100 out of 100

ⓘ Correct answers are hidden.

Score for this quiz: **100** out of 100
Submitted Apr 11 at 3:53pm
This attempt took 20 minutes.

Question 1	10 / 10 pts

3. FILL IN THE BLANK (spell just like when you code) When deriving sub-classes (i.e., child class inherits from parent class), what is NOT required but is ALWAYS recommended you use and does not effect code execution.

@Override

Yes, that is correct!

Question 2   10 / 10 pts

Select the TRUE statements. The GoF Singleton design pattern is
ALWAYS implemented with:

☑ static method

☐ no constructor

☐ implicit compiler provided default class constructor

☐ one single design pattern

Yes, that is correct!

Question 3   10 / 10 pts

To use an API, you MUST use the following Object Oriented Principles:

☑ abstraction

☐ encapsulation

☑ inheritance

☑ polymorphism

Yes, that is correct!

Question 4   10 / 10 pts

To implement loose coupling, you MUST use the following Object Oriented Principles:

☑ abstraction

☐ encapsulation

☑ inheritance

☑ polymorphism

Yes, that is correct!

Question 5   10 / 10 pts

The simple factory pattern breaks which S.O.L.I.D. design principles:

☐ Dependency Inversion principle

☑ Open Closed principle;

☐ Interface Segregation Principle

☑ Sole Responsibility Principle

Yes, that is correct!

Question 6   10 / 10 pts

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

The preceding Java statement CLEARLY implements the following Object Oriented principles:

☑ abstraction

☐ encapsulation

☑ inheritance

☑ polymorphism

Yes, that is correct!

Question 7

10 / 10 pts

The Singleton design pattern is a:

- ◉ creational pattern

- ○ structural pattern

- ○ behavioral pattern

- ○ organizational pattern

Yes, that is correct!

Question 8

10 / 10 pts

Using design patterns in your software design:

- ☑ improves code readability

- ☐

increases software development costs to reduce software development time

☑ improves code testability

☐ lengthens code development cycles as more lines of code must be written

Yes, that is correct!

Question 9

Original Score: 6.67 / 10 pts **Regraded Score: 10 / 10 pts**

⚠ **This question has been regraded.**

ArrayList<String> names = new ArrayList<>(); The preceding Java statement CLEARLY fails to demonstrate the of the following Object Oriented principles:

☑ abstraction

☐ encapsulation

☐ inheritance

☑ polymorphism

Yes, that is correct!

Question 10   10 / 10 pts

FILL IN THE BLANK (SPELL CORRECTLY using all LOWERCASE
characters and NO OTHER ADDITIONAL CHARACTERS OR
SPACES) What Object Oriented Principle is ALWAYS used in Java?

inheritance

Yes, that is correct!

Quiz Score: **100** out of 100

Exceptions

Due No due date   **Points** 100   **Questions** 10
Time Limit 20 Minutes

Instructions

READ CAREFULLY and Answer ALL questions within the allotted time as exam auto-submit and self-grade upon time expiring.
SINGLE ATTEMPT ONLY.

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	10 minutes	100 out of 100

⚠ Correct answers are hidden.

Score for this quiz: **100** out of 100
Submitted Feb 28 at 4:30pm
This attempt took 10 minutes.

Question 1	**10 / 10 pts**

Java Exceptions: How many kinds of Java Exceptions?

○ 1

○ 2

○ 3

○ 4

Yes, that is correct.

Question 2

10 / 10 pts

Java Exceptions:

FILL IN THE BLANK (ALL LOWERCASE SPELLING COUNTS with **NO EXTRA SPACES OR CHARACTERS**)

What kind (category) of Java Exception *must* be managed by your code?

Checked Exception

Yes, that is correct.

Question 3

10 / 10 pts

Java Exceptions:

FILL IN THE BLANK (ALL LOWERCASE SPELLING COUNTS with **NO EXTRA SPACES OR CHARACTERS**)

When you **MUST** manage an exception with your code, how must you manage such an exception?

(**YOUR ANSWER MUST BE ** TWO WORDS ** ** with the word **OR**, like '*black or white*')

caught or specified

Yes, that is correct.

Question 4   10 / 10 pts

FILL IN THE BLANK (ALL LOWERCASE SPELLING COUNTS with NO EXTRA SPACES OR CHARACTERS)

Java will ALWAYS manage one shared resource of your computing platform: name that resource.

(YOUR ANSWER MUST BE ** **ONE WORD** ** , like 'electricity')

memory

Yes, that is correct.

Question 5

10 / 10 pts

FILL IN THE BLANK (ALL LOWERCASE SPELLING COUNTS with NO EXTRA SPACES OR CHARACTERS)

How does Java ALWAYS manage one shared resource of your computing platform, name that specific facility.

(**YOUR ANSWER MUST BE ** A SINGLE TWO LETTER ABBREVIATION **** , like we use the two letter abbreviation '**ac**' for air conditioning)

gc

Yes, that is correct.

Question 6

10 / 10 pts

Java Exceptions:

FILL IN THE BLANK (ALL LOWERCASE SPELLING COUNTS with NO EXTRA SPACES OR CHARACTERS)

If you do not manage an exception with your code (that MUST be managed), what will be the result?

(**YOUR ANSWER MUST BE ** TWO WORDS **** , like 'bad news')

Compilation Error

Yes, that is correct.

Question 7   10 / 10 pts

Java Exceptions:

FILL IN THE BLANK (ALL LOWERCASE SPELLING COUNTS with NO EXTRA SPACES OR CHARACTERS)

When you java code needs to create an exception, an absolute requirement is ... **(NAME WHAT YOU NEED)**

**NOTE: YOUR ANSWER MUST BE ** TWO WORDS ** **, like 'bad news')

throwable object

Yes, that is correct.

Question 8   10 / 10 pts

FILL IN THE BLANK (spell just like when you code with NO EXTRA SPACES OR CHARACTERS)

When you java code needs to create an exception, you must use which keyword?

throw

Yes, that is correct.

Question 9

10 / 10 pts

Java Exceptions:

FILL IN THE BLANK (spell just like when you code with NO EXTRA SPACES OR CHARACTERS)

When you java code needs an exception specified, you must use which keyword?

throws

Yes, that is correct.

Question 10   **10 / 10 pts**

Java Exceptions:

FILL IN THE BLANK (spell just like when you code with NO EXTRA SPACES OR CHARACTERS)

When you java code needs to catch an exception, you must use which keywords

(YOUR ANSWER MUST BE COMMA SEPARATED NO SPACES, like 'one,two,three,four,five,six')

try,catch,finally

Yes, that is correct.

Quiz Score: **100** out of 100

Q1

Due No due date	**Points** 1	**Questions** 1	**Time Limit** 10 Minutes

Instructions

This Quiz is a measure of your attendance and class participation. Answers were covered in today's lecture

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	less than 1 minute	1 out of 1

Score for this quiz: **1** out of 1
Submitted Jan 27 at 10:06pm
This attempt took less than 1 minute.

Question 1	**1 / 1 pts**

Select all true statements about UML:

Correct!	☑ a picture language
Correct!	☑ useful for documentation
Correct!	☑ can be detailed in it's specification
Correct!	☑ useful to generate code

Yes, that is correct!

Quiz Score: **1** out of 1

Q2

Due No due date   **Points** 5   **Questions** 3   **Time Limit** 10 Minutes

Instructions

This Quiz is a measure of your attendance and class participation. Answers were covered in today's lecture. Answer correctly and completely within the allotted time.

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	6 minutes	5 out of 5

Score for this quiz: **5** out of 5
Submitted Jan 31 at 3:18pm
This attempt took 6 minutes.

Question 1   3 / 3 pts

Select ALL statements which are TRUE:

Correct!

☑ Reference types are instantiated by explicitly using keyword "new";

☐ Primitive types are instantiated by explicitly using keyword "new";

☐ ALL Reference types should be instantiated by explicitly using using keyword "new";

☐

ALL Primitive types should be instantiated by explicitly using using keyword "new";

Correct!

☑

I can instantiate a Reference type WITHOUT explicitly using the keyword "new";

Correct!

☑

I can instantiate a Primitive type WITHOUT explicitly using the keyword "new";

Yes, that is correct.

Question 2   1 / 1 pts

FILL IN THE BLANK JUST LIKE IN CODE (spelling and capitalization must be correct) WITH NO EXTRA CHARACTERS OR SPACES.

If i want my class to have a data member created BEFORE PROGRAM EXECUTION BEGINS, I MUST declare that data member with

Correct!

    static

orrect Answers   static

Yes, that is correct!

Question 3   1 / 1 pts

FILL IN THE BLANK JUST LIKE IN CODE (spelling and capitalization must be correct) WITH NO EXTRA CHARACTERS OR SPACES.

If i want my class to have a READ-ONLY data member (CANNOT BE WRITTEN OR CHANGED), I MUST declare that data member with

Correct!

final

rrect Answers   final

Yes, that is correct!

Quiz Score: **5** out of 5

Q3

Due No due date   **Points** 1   **Questions** 1   **Time Limit** 10 Minutes

Instructions

This Quiz is a measure of your attendance and class participation. Answers were covered in today's lecture. Answer correctly and completely within the allotted time.

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	1 minute	1 out of 1

Score for this quiz: **1** out of 1
Submitted Feb 7 at 3:15pm
This attempt took 1 minute.

Question 1	1 / 1 pts

FILL IN THE BLANK (spell just like when you code) When deriving subclasses (I.e. child class inherits from parent class), what is NOT required but is ALWAYS recommended you use and does not effect code execution.

Correct!

@Override

Correct Answers   @Override

Yes that is correct!

Quiz Score: **1** out of 1

Q4

Due No due date	**Points** 2	**Questions** 2	**Time Limit** 5 Minutes

Instructions

This Quiz is a measure of your attendance and class participation. Answers were covered in today's lecture. Answer correctly and completely within the allotted time.

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	less than 1 minute	2 out of 2

Score for this quiz: **2** out of 2
Submitted Feb 14 at 3:59pm
This attempt took less than 1 minute.

Question 1   1 / 1 pts

CAREFULLY FILL IN THE BLANKs with no extra characters or spaces AND you MUST SPELL just like when you WRITE CODE in Java.

To give objects instantiated from your class a DEFAULT SORT ORDER,

you class must implement the   Comparable   Interface which

requires you to implement the   compareTo()   method and you

MUST include () with the method name here.

Answer 1:

Correct!   Comparable

orrect Answer   Comparable<T>

Answer 2:

Correct!   compareTo()

Yes, that is correct!

Question 2   *1 / 1 pts*

CAREFULLY FILL IN THE BLANKs with no extra characters or spaces AND you MUST SPELL just like when you WRITE CODE in Java. To sort objects instantiated from your class in an EXPLICIT SORT

ORDER, you must implement the   Comparator   Interface which

requires you to implement the   Compare()   method and you

MUST include () with the method name here.

Answer 1:

Correct!   Comparator

Answer 2:

Correct!   Compare()

Yes, that is correct!

Quiz Score: **2** out of 2

Q5

Due No due date   **Points** 1   **Questions** 1   **Time Limit** 10 Minutes

Instructions

This Quiz is a measure of your attendance and class participation. Answers were covered in today's lecture. Answer correctly and completely within the allotted time.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	less than 1 minute	1 out of 1

Score for this quiz: **1** out of 1
Submitted Feb 21 at 6:18pm
This attempt took less than 1 minute.

Question 1	1 / 1 pts

Select ALL TRUE statements about Java Exceptions:

☐ all Exceptions MUST BE Specified

Correct!   ☑ An Error Exception is difficult to anticipate

☐ all Exceptions require an exception handler

Correct!   ☑ A Runtime Exception is difficult to anticipate

☐ ALL Checked Exceptions MUST BE CAUGHT

Yes, that is correct!

Sorry, that is not correct.

Quiz Score: **1** out of 1

Qds

Due No due date	**Points** 2	**Questions** 2	**Time Limit** 2 Minutes

Instructions

This Quiz is a measure of your attendance and class participation. Answers were covered in today's lecture. Answer correctly and completely within the allotted time.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	less than 1 minute	2 out of 2

Score for this quiz: **2** out of 2
Submitted Apr 4 at 3:01pm
This attempt took less than 1 minute.

Question 1	**1 / 1 pts**

Select MATCHING statements which are TRUE, e.g.,
 LEFT SIDE: RIGHT SIDE:
 Class   a specification

Correct!   **Stack is like**   a pile of books ⬍

Correct!   **Stack used for**   Highest Prioritization Fir ⬍

Other Incorrect Match Options:

- Managing the cashier checkout line in a store
- Service in order of arrival

Yes, that is correct!

Question 2   1 / 1 pts

Select MATCHING statements which are TRUE, e.g.,
 LEFT SIDE: RIGHT SIDE:
 Class   a specification

Correct!

Queue is like   a cashier checkout line ⬍

Correct!

Queue is used for   Service in order of arriva ⬍

Other Incorrect Match Options:
- Highest Prioritization First
- A pile of books

Yes, that is correct!

Quiz Score: **2** out of 2

QL

| **Due** No due date | **Points** 3 | **Questions** 3 | **Time Limit** 10 Minutes |

Instructions

This Quiz is a measure of your attendance and class participation. Answers were covered in today's lecture. Answer correctly and completely within the allotted time.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	9 minutes	0 out of 3

Score for this quiz: **0** out of 3
Submitted Mar 28 at 2:59pm
This attempt took 9 minutes.

Question 1	0 / 1 pts

FILL IN THE BLANK (spelling counts ALL LOWERCASE LETTERS WITH NO EXTRA SPACES OR CHARACTERS) What is another name for a Lambda?

ou Answered

> function

orrect Answers   closure

Sorry, that is not correct.

Question 2   0 / 1 pts

FILL IN THE BLANK (spell just like when you code with NO EXTRA SPACES OR CHARACTERS) A Lambda implementation targets a ???

ou Answered

@FuntionalInterface

orrect Answers   @FunctionalInterface

Sorry, that is not correct.

Question 3   0 / 1 pts

FILL IN BOTH BLANKs (spelling counts ALL LOWERCASE LETTERS

WITH NO EXTRA SPACES OR CHARACTERS) A | Stream |

| API | is a more compact special purpose Lambda

expression.

Answer 1:

You Answered

Stream

Correct Answer

method

Answer 2:

You Answered

API

Correct Answer

reference

Sorry, that is not correct.

Quiz Score: **0** out of 3

Qsw

Due No due date　　　　**Points** 2　　　　**Questions** 2　　　　**Time Limit** 2 Minutes

Instructions

This Quiz is a measure of your attendance and class participation. Answers were covered in today's lecture. Answer correctly and completely within the allotted time.

Attempt History

	Attempt	Time	Score
LATEST	**Attempt 1**	less than 1 minute	2 out of 2

Score for this quiz: **2** out of 2
Submitted Apr 11 at 2:58pm
This attempt took less than 1 minute.

Question 1	**1 / 1 pts**

13. FILL IN THE BLANK (SPELL just like when you code WITH NO OTHER ADDITIONAL CHARACTERS OR SPACES)

When you write a Swing GUI program and a user clicks on a button on your form, what is the name for your code which executes in response to that user action?

Correct!

> ActionListener

Correct Answers　　ActionListener

Yes, that is correct!

Question 2

1 / 1 pts

FILL IN THE BLANK (ALL UPPERCASE) WITH INITIALS ONLY, NOT THE FULL NAME When you write a Swing GUI program and a user clicks on a button on your form, what is the name for the THREAD (INITIALS ONLY) on which your code will execute in response to that user action?

Correct!

EDT

orrect Answers

EDT

Yes, that is correct!

Quiz Score: **2** out of 2

Qth

| **Due** No due date | **Points** 1 | **Questions** 1 | **Time Limit** 2 Minutes |

Instructions

This Quiz is a measure of your attendance and class participation. Answers were covered in today's lecture. Answer correctly and completely within the allotted time.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	1 minute	1 out of 1

Score for this quiz: **1** out of 1
Submitted Apr 25 at 4pm
This attempt took 1 minute.

Question 1	**1 / 1 pts**

Select the BEST selection (or multiple selections): When creating a new Thread, it is best to:

Correct!

☑ Use a Runnable

☐ Inherit from Thread class

Correct!

☑ Use executor thread pools

☐ Use multiple processes

☐ write single threaded code

Yes, that is correct!

Quiz Score: **1** out of 1