12/14/2019 Quiz: Final (Part C)

Final (Part C)

Started: Dec 14 at 11:24pm

Quiz Instructions

This exam part has 20 questions, worth 2.5 points each, with a 30 minute total time limit.

The exam is **individual** only, and **closed** to ALL resources. You may NOT use any books, notes, course materials, nor any other resources (whether from the Internet or otherwise).

By submitting your answers, you agree and consent to the following:

"I PLEDGE THAT THIS ASSIGNMENT HAS BEEN COMPLETED IN COMPLIANCE WITH THE GRADUATE HONOR CODE AND THAT I HAVE NEITHER GIVEN NOR RECEIVED ANY UNAUTHORIZED AID ON THIS ASSIGNMENT."

Question 1	2.5 pts
The access specifier in the declaration of instance variables should almost alwa	ys be
protected	
private	
static	
public	

Question 2	2.5 pts
When a button component is pushed then released in a GUI application, what event is generated by the button?	kind of
○ ChangeEvent	
○ MouseEvent	
ActionEvent	

ItemEvent

Question 3	2.5 pts
Which of the following operations is least efficient in a Java LinkedList?	
Adding an element in a position that has already been located	
Locating the position of an element within the list	
Removing an element when the element's position has already been located	
Adding an element at the beginning of the list	

Question 4	2.5 pts
Which of these love collection classes allow you to enceify their generics?	
Which of these Java collection classes allow you to specify their generics?	
I. HashMap	
II. LinkedList	
III. ArrayList	
○ I and II only	
○ II and III only	
I, II and III	
○ I and III only	

Question 5	2.5 pts
Consider the following code:	
String myString = "Hello"; String yourString = myString;	

What is the value of myS	tring after this c	ode finishes?	
) "hello"			
null			
• "Hello"			
◯ "" (an empty string)			

Question 6	2.5 pts
In an ArrayList of size n, what is the worst-case-scenario maximum number of that need to be moved when a new element is inserted into some position within	
0	
○ n/2	
○ 2n	

Question 7	2.5 pts
In Java, it is most widely considered a best practice is to declare all of your local variables at the beginning of your method, rather than where they are first neede	
o false	
• true	

Question 8 2.5 pts

Quiz: Final (Part C)

reduce()		
count()		
) distinct()		
average()		

Question 9	2.5 pts
There are exactly eight of these types in Java; all other types are reference type	es.
Static types	
 Constant types 	
Primitive types	
Numeric types	

Question 10	2.5 pts
Which metric tells you the percentage of lines and/or branches that were exercis running your tests against your own code.	sed by
Cyclomatic complexity	
Problem coverage	
Code coverage	
○ Test correctness	

Question 11 2.5 pts

12/14/2019

Which of the following is true about interfaces and abstract classes?
An interface cannot have constants whereas an abstract class can.
An interface cannot have instance variables whereas an abstract class can.
An interface cannot be instantiated whereas an abstract class can.
An interface can specify static methods whereas an abstract class cannot.

Question 12

All of the following declarations compile, but which one is generally considered the best and most common form to use?

AbstractList<String> list = new ArrayList<>();

List<String> list = new ArrayList();

ArrayList<String> list = new ArrayList<>();

ArrayList<String> list = new ArrayList<>();

Question 13 2.5 pts

Assume that you have declared a map named myMap to hold String values associated with Integer keys. Which of the following statements will correctly add an association to myMap?

```
myMap.put(3, "apple");
```

Map[3] = "apple";	
Map.push(3, "apple");	

Question 14	2.5 pts
Another name for a non-static field of a class is:	
non-static method	
○ type parameter	
local variable	
instance variable	

Question 15	2.5 pts
Which special type in Java allows a programmer to define a finite number of uninamed values?	quely-
static type	
immutable type	
enumeration type	
mutable type	

Question 16 2.5 pts

If we declare an array variable as final, it means that the contents of the array cannot change.	
true	
○ false	

Complete the following code snippet that returns a stream of Student objects, representing students who have a grade point average (GPA) of at least 3.8. Assume that studentStream is a stream of all Student objects, and that the getGpa() method returns a double representing the student's GPA.

Stream<Student> highHonors = studentStream_______;

Iimit(s.getGpa() >= 3.8)

.filter(getGpa() >= 3.8)

.filter(s -> s.getGpa() >= 3.8)

A(n) _____ declares exactly one abstract method. It may be implemented using classic techniques or lambda expressions.

anonymous inner class
aggregate operation

method reference		
 functional interface 		

Question 19	2.5 pts
Which of the following statements about superclasses and subclasses is true?	
A superclass is extended by a subclass.	
A superclass inherits from a subclass.	
A superclass is larger than its subclass.	
A superclass extends a subclass.	

Question 20 2.5 pts

Given the following declaration:

```
public class MyClass<T> {
    private final int value;
    public MyClass(int i) {
        value = i;
    }
    // . . . more fields and methods . . .
}
```

Consider the following line of code that calls the constructor above:

```
MyClass obj = new MyClass(5044);
```

what is the generic type parameter T in this line of code?

- There is an error in this line of code.
- int
- Object

12/14/2019 Quiz: Final (Part C)

○ Integer

No new data to save. Last checked at 11:33pm

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