

Quiz #4

Name: _____

Instructions

Write the **MOST CORRECT** answer for the following questions in the space provided. For example: If “A” and “C” are both correct, and “D” is “both A and C”, then answering “D” will get you credit. Answering “A” or “C” will get you **NO** credit.

- 1) _____ **What is it called when you write multiple methods in the same class with the same name, but accept different types of parameters?**
 - A. Overriding
 - B. Overloading
 - C. Overwriting
 - D. Overtaking
 - E. Overfilling

- 2) _____ **A method’s signature consists of what two things?**
 - A. Its return type and types of its parameters
 - B. Its return type and name
 - C. Its name and types of its parameters
 - D. Its types of the arguments passed to it and the types of its parameters
 - E. Its types of the arguments passed to it and return type

- 3) _____ **Hiding an attribute with a local variable is known as what?**
 - A. Data Hiding
 - B. Cloaking
 - C. Obscuring
 - D. Suppressing
 - E. Shadowing

- 4) _____ **A group of related classes is called what?**
- A. An object
 - B. An API
 - C. A collection
 - D. A package
 - E. A container
- 5) _____ **Java's `ArrayList` is a combination of what two data structures?**
- A. Array and Linked List
 - B. Array and Skip List
 - C. Array and Binary Tree
 - D. Binary Tree and Skip List
 - E. Queue and Linked List
- 6) _____ **Which of the following is an advantage of the `ArrayList` data structure?**
- A. You can find an element by its value in constant time.
 - B. You can access any element by its index.
 - C. You can add and remove elements from it.
 - D. Both B and C
 - E. None of the above
- 7) _____ **To add an item to the end of an `ArrayList`, and to insert an item into the `ArrayList` at a given index which methods do you use?**
- A. `add` and `insert`
 - B. `append` and `insert`
 - C. `add` and `set`
 - D. Two overloaded methods named `insert`
 - E. Two overloaded methods named `add`

- 8) _____ **In order for a program to save data for use when the program is not running, the program must do what?**
- A. Save its data in variables
 - B. Save its data to main memory
 - C. Save its data to secondary storage
 - D. Save its data to a database
 - E. It doesn't need to do anything
- 9) _____ **In class we discussed methods to save data in what kind of file?**
- A. Data file
 - B. Text file
 - C. Database file
 - D. SQL file
 - E. Executable file
- 10) _____ **Which is NOT a class that we discussed for file input and output in this course?**
- A. Scanner
 - B. PrintWriter
 - C. TextWriter
 - D. FileWriter
 - E. File
- 11) _____ **Writing to the end of a file is called what?**
- A. Amending
 - B. Appending
 - C. Annealing
 - D. End-writing
 - E. Attaching

- 12) _____ **When you give a file's name as an argument, what are you actually giving?**
- A. The entire path to the file, if specified
 - B. The name of the file in which to read and write
 - C. If just the name is given, the path to the directory in which it was compiled
 - D. None of the above
 - E. All of the above
- 13) _____ **What are methods called that call themselves?**
- A. Recursive methods
 - B. Repeating methods
 - C. Main methods
 - D. Constructor methods
 - E. Static methods
- 14) _____ **A method that calls itself will keep calling itself unless it has what?**
- A. A control case
 - B. A repeated case
 - C. A base case
 - D. A return statement
 - E. A break statement
- 15) _____ **Some problems can ONLY be solved recursively.**
- A. True
 - B. False