

CS 2501: DSA1 Weekly Quizzes

Name _____


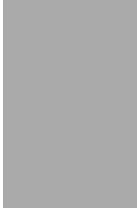


You MUST write your e-mail ID on **EACH** quiz page that you choose to complete. Please put your name on the top of each page you complete as well.

You may complete up to two pages of this quiz booklet. If you complete more than that, we will only grade two of the pages (which two is up to our discretion).

There are 3 pages to this quiz booklet. Once the time starts, please make sure you have all the pages.

This quiz is CLOSED text book, closed-notes, closed-calculator, closed-cell phone, closed-computer, closed-neighbor, etc. Questions are worth different amounts, so be sure to look over all the questions and plan your time accordingly. Please sign the honor pledge below.

*A crash reduces
Your expensive computer
To a simple stone.*

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	a b c d e f g h i j k l m n o p q r s t u v w x y z		Department	Course	Exam	Page	Version	
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Module 1: Basic Java 1

Your TA will select one of the following short answer questions for you to answer:

- What is the difference between a float and a double (looking for high level description here)?
- Java is strongly typed. What does this mean? Give an example to illustrate your point.
- Describe one difference between primitive and Object types in Java.
- Briefly, what is the Java API and why is it useful?
- What is casting? Provide an example to illustrate your point.

1. [1 points] Answer the question that was selected.

2. [1 points] For this question, write a simple java program that reads in two variables and does one of the following. Your TAs will randomly select one of these options.

- Reads in two Strings from the keyboard and prints them to the console.
- Reads in two integers from the keyboard and prints their sum to the console.
- Reads in two doubles from the keyboard, converts them to integers, and prints the sum of the integers to the console.

```
//IMPORTS AND SUCH HERE
public class QuizQuestion{
    public static void main(String[] args){
        //YOUR CODE STARTS HERE:
```

```
    }
}
```

Module 2: Basic Java 2

Your TA will select one of the following short answer questions for you to answer:

- If an array is passed to a method and its contents altered, will the actual parameter be changed as well? Why or why not?
- True or False: An if statement can contain an expression that evaluates to an integer because Java knows how to treat integers in this scenario. Explain your answer.
- In Java, what happens if you do not include curly braces with your if-statements?
- Briefly describe the difference between how primitives and references are stored in memory.
- Write a short code snippet that produces a shared reference.

3. [1 points] Answer the question that was selected.

4. [1 points] For this question, write a Java method that takes in an array of integers as a parameter and does one of the following. Your TA will select which method you write.

- Compute the third highest integer in the array and print it to the console.
- Print out all of multiples of 10 in the array in backwards order.
- Print out all of the positive, even numbers.

```
public static void quizMethod(int[] a){
```

```
}
```