

Project Cover Letter

Dr. Gurka \ CS 1, Fall 2019

Your name: Badr Choubai \ Project: Calculator \ Date submitted: 2019-09-16

Discussion Questions

1. Overflow - Find out what happens when you try to add two numbers whose sum exceeds the maximum integer value. Test two billion plus two billion. What result did you get? Explain why overflow happens on a computer.
2. Explain inexact results on integer division such as:

```
2 / 5 = 0 and 51 / 25 = 2
```

3. What syntax (Java grammar rules) did you have the most trouble getting right?
4. What semantics (meaning of the code) did you have the most trouble understanding?

Answers

1. When attempting to add two billion plus two billion I encountered a Java compiler error.
2. This happen because the division solver returns an int and not a floating point number.
3. `System.out.printf("%d %% %d = %s \n", operandOne, operandTwo, operandOne % operandTwo);`
4. The method classifications: public, protected, private.

Time spent on the project outside class

1.5 hours

Is the project complete and correct

Yes

Collaboration. Other than office hours help, who did you work with or get help from

References. Other than the textbook, what references did you use? Be specific

Java Documentation

Reflection

1. What went well on this project?

My ability to think of a quick solution

2. What problems did you have on this project?

I started by overthinking a solution.

Your submission of this project is your affirmation that all the work you have submitted is your own, except as allowed in the assignment.