# Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_Points \_\_\_\_\_ AP Computer Science

## Sammamish High School

# Java Project #1 Checkpoint #2 Check List

Goal: Parsing the fractions: handle mixed and improper fractions and operations.

**The basics**

* 1 point: Code compiles without error
* 1 point: Code has been updated since checkpoint 1

**Parsing to improper fractions**

* 1 point: Code internally parses all input to an int numerator and an int denominator
* 1 point: Code prints the computed numerator and denominator
* 1 point: Simple fractions handled correctly
  + Test: 3/2 + 4/5 echoed back as 3/2 + 4/5
* 1 point: Mixed fractions handled correctly
  + Test: 1\_2/3 \* 4\_5/6 echoed back as 5/3 \* 29/6
* 1 point: Whole numbers handled correctly
  + Test: 1 - 2 echoed back as 1/1 - 2/1
* 1 point: Negative input handled correctly
  + Test: -1/2 \* -3\_4/5 echoed back as -1/2 \* -19/5
  + Test: 1 / -2 echoed back as 1 / -2

**Test case list**

* 1 point: Test case list attempted
* 1 point: Test case list includes cases covering at least a simple fraction, a mixed fraction, and a whole number

**Not graded in this checkpoint**

* 0 points: Validate checkpoint 1 behavior: input loop
* 0 points: Future features such as simplification, calculation, and extra credit

Tips for test case list requested in the checkpoint to cover checkpoint 2, 3 and final. If the final. requirements on the test case list:

* Must include all 4 operations
* Must include a negative simple fraction, mixed fraction, and whole number
* Must include an operation where the result needs to be reduced
* Must include operations resulting in a simple fraction, mixed fraction, and whole number
* Must include cases for any extra credit functionality implemented.