**Second Sprint - Review**

**Story Points Planned:** 54

**Story Points Completed**: 78

**Previous Project Velocity:** 62

**Current Project Velocity:** 70

**Issues discovered during the implementation**

**Technical problems:**

* While implementing the -x variable operation, we found out that we had a conflict between the use cases of adding the Complex number “-i “and wanting to perform the -x operation on the variable “i”. We solved this problem by adding a checkbox for the user to choose between the two options.

**Technical Debts:**

* TD 1.0: We noticed that the method elaborateInput() of the class ProgrammableCalculatorController has become very complex, so it needs a refactoring.

**Bugs:**

* Bug 1.0: When we insert a complex number with two imaginary parts (e.g. 5i+4i) the program inserts the complex number consisting of 0 as real part and the first number as imaginary part (e.g. 0+5i) instead of giving an input format error message. This bug hasn’t been solved yet and we will dedicate a time block in the next spring for bug fixing.

**Product Backlog refinements**

* User Story 18 and 19 were merged together, because we realized that user story 18 alone was not testable.
* The story points of the resulting User Story from the merge of US 18 and 19 were estimated again thanks to a deeper discussion about its design
* Story Points of the User Story 20 was decreased from 34 to 21, thanks to a discussion about the design of said feature