

# Software Engineering Project

Di Napoli Vincenzo [v.dinapoli6@studenti.unisa.it](mailto:v.dinapoli6@studenti.unisa.it)  
Fasulo Sabato [s.fasulo5@studenti.unisa.it](mailto:s.fasulo5@studenti.unisa.it)  
Giso Alfonso [a.giso@studenti.unisa.it](mailto:a.giso@studenti.unisa.it)

## #1 Sprint Backlog

### Scientific Programmable Calculator

#### User Stories

##### Priority Order

The priority order goes from value 1 to 6 where 1 is the highest priority and 6 the lowest.

ID	Description	Acceptance Criteria	Priority	Story points
----	-------------	---------------------	----------	--------------

##### Basic Operations

A1.	As a user I want to add 2 complex numbers	Given I've saved at least 2 complex numbers, when I press the "+" button, then I want as result the sum between the last 2 saved numbers	1	1
A2.	As a user I want to subtract 2 complex numbers	Given I've saved at least 2 complex numbers, when I press the "-" button, then I want as result the difference between the last 2 saved numbers	1	1
A3.	As a user I want to multiply 2 complex numbers	Given I've saved at least 2 complex numbers, when I press the "x" button, then I want as result the product between the last 2 saved numbers	1	1
A4.	As a user I want to divide 2 complex numbers	Given I've saved at least 2 complex numbers, when I press the "/" button, then I want as result the division between the last 2 saved numbers	1	1

A5.	As a user I want to make the square root of a complex number	Given there are some complex numbers saved, when I press the "rad" button, then I want as result the square root of the last one saved	1	1
A6.	As a user I want to invert sign of a complex number	Given there are some complex numbers saved, when I press the "+/-" button, then I want as result the opposite of the last one saved	1	1
A7.	As a user I want to insert a number without his imaginary part if this one is equal to zero in order to execute operations with real numbers	Given I'm a user who want to use real numbers in operations, when I want to insert numbers that have imaginary part equals to zero, then I can insert only the real part	1	1

---

### Data Access

B1.	As a user I want to save entered numbers to use them in next operations	Given I've entered a complex number, when I press the "save" button, then I can memorize the value of this number	2	1
B2.	As a user I want to delete all saved numbers because they might be useless	Given I've saved some numbers, when I press the "clear" button, then I can delete all saved numbers	2	1
B3.	As a user I want to delete the last saved number in case I don't need it	Given I've saved a number, when I press the "del" button, then I can delete just the last number saved	2	1
B4.	As a user I want to duplicate the last saved number	Given I've saved a number, when I press the "dup" button, then I can duplicate the last number saved	2	1
B5.	As a user I want to swap the last two entered numbers to invert their order in the next operation	Given I've saved at least 2 numbers, when I press the "swap" button, then I can invert the order of the last 2 saved numbers	2	2

3

B6. As a user I want to pick the second last element saved

Given I've saved at least 2 numbers, when I press "csl" (copy second last) button, then I can have access to the second last element

2 2

---

## Sprint Velocity

Estimated velocity for the first sprint:

18

---