

# CSSE3100 Study Notes

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May 12, 2018

Semester 1, 2018

```
/*@ requires c >= 0;  
   @ ensures getCredits == c;  
   @*/  
public Constructor(int c) {  
    this.c = c;  
}
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   @ ensures getCredits == c;  
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public Constructor(int c) {  
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```

Constructors can only reference parameters not instance variables as they have not yet been initialized.

Specifications obey visibility of java access modifiers unless overridden by above syntax

```
/*@ spec_public */ private int status;
```

# JML Invariants

Invariants are always true properties of a class which are:

- ensured by a constructor

- maintained by each method

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/*@ invariant x;  
   @ invariant y;  
   @*/
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```

Helper methods do not need to maintain the invariant

```
private /*@ helper @*/ helperMethod() {}
```