CSSE3100 Study Notes

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1   JML Constructors

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

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

2   JML Visibility

Specifications obey visibility of java access modifieres unless overriden by above syntax

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

3   JML Invariants

Invariants are always true properties of a class which are:

- ensured by a constructor

- maintained by each method

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

> Helper methods do not need to maintain the invariant
>
> ```
> private /*@ helper @*/ helperMethod() {}
> ```