***Driver Reading:***

* A driver tests software efficiently and with an even wider range than normal encounters
* A driver is a simple function designed to test a program
* It generates input parameters and tests output parameters
* 15.1 use manual drivers for early development
* It makes it much easier to localize bugs
* If you get to the point where you’re using the same test cases over and over, it’s better to automate the process
* 15.2 use automation when you’re nearly done with the program

**5 stages of automation:**

1. Ad Hoc: A few lines of code used to test a function
2. Commandeer: code added to main() to test a function
3. Driver Function: Permanent code written to test a specific function
4. Automation: A driver function working without human intervention
5. Test Runner: Code used to execute many automation functions

* Ad hoc is like getting a couple of user inputs and inputting them into parameters
* Commandeer is just putting a while loop in main to avoid running the main code
* You don’t want too many Driver Functions in your program it’ll be all bloated
* Driver code can be put in a separate file
* If you have a lot of test cases use Automation
* Automation is essentially calling the function a million times with different parameters

15.4 Create an automation for every function in the project

15.5 Run the automations often

* A test runner is a function that calls all of the automation
* This function is for debug only
* It’s not going to be in the release