## CS163 Test Plan

**Develop the test plan:** *For each member function that you plan to write, think about how to test it – what flow of control exists in the member function and how would you test out all conditions:*

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| **Test Case(s)** | **Expected Result** | **Verified?**  **(yes/no)** |
| **read\_products();** | **Read in all the product information from an external file.** |  |
| **Delete\_product();** | **Remove a product** |  |
| **Find\_product();** | **Find the corresponding product. If found, it shows the data. If not, no data found.** |  |
| **Display\_product();** | **Display all the products in the linear linked list.** |  |
| **enqueue ();** | **Add a chosen product to the queue list** |  |
| **dequeue();** | **Remove the product at the front in the queue list.** |  |
| **peek\_queue();** | **Shows the product located at the front in the queue list.** |  |
| **Push();** | **Add a chosen product to the stack list** |  |
| **Pop();** | **Remove the product at the top in the stack list.** |  |
| **Peek\_stack();** | **Shows the product located at the top of the stack list.** |  |
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**Verify correctness:** Using the above test plan, create a test program that tests the interactions of all functions together.