## CS163 Test Plan

## Brian Dunn

## Assignment 3

**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)** |
| **HASH TABLE** |  |  |
| **Insert a keyword and information** | **The function should return a 1 if success, 0 if it failed.** |  |
| **Insert a keyword that already exists.** | **Should fail. This is a remove or edit function if the keyword exists.** |  |
| **Remove a keyword with its information** | **If the keyword is found should remove associated information and return success, if the keyword is not found it should return fail.** |  |
| **Edit the description of given keyword** | **If the keyword is found should append supplied information to existing information and return success, if the keyword is not found it should return fail.** |  |
| **Retrieve the information about given keyword** | **If the keyword is found should copy associated information to supplied argument and return success, if the keyword is not found it should return fail.** |  |
| **Display for a give chapter** | **If the keyword is found should display associated information. If the keyword is empty it should display nothing.** |  |
| **Display all keywords** | **This should display all keywords for all each chapter for all chapters.** |  |
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**Verify correctness:** Using the above test plan, create a test program that tests the interactions of all functions together.