## 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)** |
| **Create venue- create a table size that is of power of 2 and try inserting a large number** | **Clustering will more than likely happen** |  |
| **Create venue - user enters an already existing meal** | **Hash the meal key to an index and discover that an entry already exists by string comparing them. Return a false flag.** |  |
| **Display by meal - the meal the user searched for deos not exist** | **Traverse through the hash table and return a false boolean value to signal no meal match** |  |
| **Hash Function – user supplies no key** | **Return a zero to the calling routine** |  |
| **Insert - input an already existing entry** | **String compare for each possible insertion to the table and return true that the entry does exist** |  |
| **Retrieve - retrieve a non-existing entry** | **Traverse through the hash table and return a false boolean value to signal no meal match** |  |
| **Remove by meal - display an empty table** | **Check to see if there are entries and a zero to the calling routine to signal no table** |  |
| **Get user input – user tries skip input** | **Keep asking user until an entry is made** |  |

**Verify correctness:** Using the above test plan, create a test program that testhe interactions of all functions together.