## 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\_floorplan() - user inputs no information for the tracked data members of colle floorplan class** | **I will be using a Boolean value to track success or failure for inputs** |  |
| **copy\_floorplan() - this function will be copying data from the linked list so there may be none** | **I will be using a Boolean value to track success or failure** |  |
| **display() - there may not be anything to display** | **I will be using a Boolean value to track success or failure** |  |
| **is\_effiecient) – if tree us empty then there isn’t a BST to traverse** | **I will be using a Boolean value to track success or failure** |  |
| **insert\_node() - input an already existing entry** | **Redundant entry** |  |
| **retrieve\_by\_location() - no node matches the location supplied from our user** | **Return a negative number to the calling routing** |  |
| **retrieve\_by\_name() - there isn’t a node that contains the same name** | **I will be using a Boolean value to track success or failure** |  |
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**Verify correctness:** Using the above test plan, create a test program that tests the interactions of all functions together.