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:*

Test Case(s)	Expected Result	Verified? (yes/no)
Create room (Read-in) – user tries to input a duplicate	**Return a failed status**	
Create accessory (Read-in) – user tries to enter " " versus "light-switch"	**Retry input from user**	
Retrieve room function is called and user attempts to retrieve a non-exist room	**Return a false Boolean-value to the calling routine**	
Retrieve accessory from a room but room does not exist	**Return a false Boolean-value to the calling routine**	
Display_all_accessory from a single room function is called but room does not exist	**Return a false Boolean-value to the calling routine**	
Traverse_room LLL is called but LLL room is empty	**Return a false Boolean-value to the calling routine**	
Remove_room function is called but user misspelled the room name	**Return a false Boolean-value to the calling routine. In calling routine, message the user no matching room found**	
Insert_accessory function is called but accessory already exists	**Return a false Boolean-value to the calling routine and message the user accessory already exists**	

Insert_room function is called with NULL values	**Check first for NULL values and return a false Boolean-value to the calling routine. Messaging the user in the calling routine failed insertion.**	

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