Test Plan

Test Scope	Description	Expected Results
Map Generation	 Call the Map Generation function with parameters 5 and 8. Store the results of the above step in a triple Location pointer (e.g., Location ***map). Use this pointer and each of the Location tile-replacement functions. 	 The map is 5 units tall and 8 units wide. All of the edge "tiles" are "#" indicating walls. The specified locations of each tile replacement are correct and the symbol displays appropriately.
Player Movement/Controls	 Place the player in a room of at least 5x5. Use the WASD keys to move around. Access inventory using I Interact using E Investigate using F Access help using H Exit using X 	 WASD: W moves the player up, A to the left, S backward, and D to the right Inventory: User is prompted to enter 9 to exit Interact: User is prompted to select 1 of 5 directions to interact with Investigate: User is prompted to select 1 of 5 directions to investigate Help: All of the controls and a few notes are displayed to the user. Exit: User is asked if they're sure they want to exit.
Item Interaction	 Create an item and use setItem to store this on a floor tile Move the player to the item and use the interact control on the tile. 	 The floor tile should display with a "!" After interacting the player should be prompted that they have picked up the item.
Tile Interaction	 Insert 2 switches into a map of at least 5x5. Insert a locked door into the same map. For each switch, set the other switch as a dependent. For one of the switches, set the door as the affected. Make sure the switch "Set Name" and door "Item Name" match exactly. Interact with one of the switches. 	 Both switches should interact simultaneously. The door should be unlocked after the switches are interacted with (this does not work in reverse)

Inventory	 Play through the game and pick up every item. Select "I" For each item in your inventory, use A & B selections. 	 Using the A selection displays the description for each item. Using the B selection will prompt the user to interact with something nearby. It is important to make sure that an attempt to view the inventory while it is full.
Outside Playtest	It is important on a project this large to get a fresh perspective on this. Have a person (not a classmate) play through the game and assist in pointing out any flaws.	 Record any issues noticed by observer or reported by player.
Memory Leaks	 Launch game and exit after launching. Launch game and exit after picking up several items. 	 In both cases, there should be no memory left in the heap nor should there be any errors.