

6 spaces: 6 characters Alex, Jose, Morgan, Pat, Robin, Taylor 2 Home meach room get Hom set Hom set spaces mterals ... 12 mbrats: place 3400? 4 Raom 1 > Hilang Boots (2) Alex continu stallet Pound + 2 Ballet Shoes

Pound + 2 Ballet Shoes Jess Bosketball Morgan shakaspeare Hiking Books from 5 ? Shakespeare (B) Robin Bullet shoes

prom 5 ? Speeds (P) Bear

Have 5 characters derived from Space class

Each character has their own action and interests

Interests are clues to what player must find in each characters room

Menu execution

Shows users rules and how to win

Shows the map I spent hours on

Gives options to move about rooms depending on what the current room

In a room:

Two items in each room that can be picked up

Must have bag size limit

If limit reached, must give the items to specific characters that like that

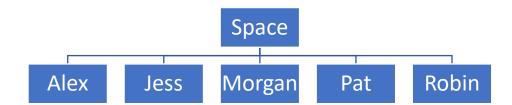
hobby

Interact with players to give them the item

Health = 20; depletes as enter each room

Must received 3 kisses to win

Receive a kiss by giving 2 items of interest to corresponding characters



Derived characters from space class

## checkInt (input validation) with range

Test case	Input value	Expected outcome	Observed outcome
Input 1 to move to	Input = 1	Moves character to	Moves character to
specific room		room	room
		- Picks up item	<ul> <li>Picks up item</li> </ul>
Input 2 to move to	Input = 2	Moves character to	Moves character to
specific room		room	room
		- Picks up item	<ul> <li>Picks up item</li> </ul>
Input 3 to move to	Input = 3	Moves character to	Moves character to
specific room		room	room
		- Interacts with	- Interacts with
		inhabitant	inhabitant
Input 4 to move to	Input = 4	Moves character to	Moves character to
specific room		room	room
Input 5 to move to	Input = 5	Moves character to	Moves character to
specific room		room	room
Input extremely high	Input = $10000000$	Catches error and	Catches error and
		prints TOO HIGH	prints TOO HIGH
		Prompts for another	Prompts for another
		input	input
Input nothing		Catches error and	Catches error and
		prints INVALID	prints INVALID
		Prompts for another	prompts for another
		input	output
Input negative	Input = -1	Prompts for another	Prompts for another
number	_	integer	integer
Input letters and numbers	Input = 10abc	Prompts for integer	Prompts for integer
	Input— cho10	Drompts for integer	Prompts for integer
Input numbers and letters	Input= abc10	Prompts for integer	Prompts for integer
Input float	Input = 100.1	Prompts for integer	Prompts for integer

<sup>\*\*\*</sup>Segmentation fault occurred because I did not use the range overloaded version of my checkInt method.

## Reflection

## Changes in design:

The hardest thing about this project was settling on what kind of theme I wanted. The backbone of the project seemed simple, as it tested our knowledge of linked lists of pointers. Other than that, it seemed like an easy feat. A change in design was how I wanted the map to look. Initially, I wanted it to look like a heart to better simulate a Love Hotel. I had 6 points to connect around the edge of the heart, but found this to be hard, so I change it to only 5 points because the middle lobby room also counted as a Space. Miscellaneous changes included dialogue that I wanted inhabitants to say and what kinds of hobbies I wanted each one to have.

## Problems:

The biggest problem I had was surprisingly not anything to do with managing memory, but how to display the hotel! The hardest thing was making sure that the backslash character was "\\" to avoid escaping the character. What made it worse was even though it looked good as I am writing the code, when I ran it, the console output did not look like how I hard coded it. Because of this, I had to constantly make little changes to the map, and then run it, and it was just tedious to say the least.

Other than coding the map display, everything else ran smoothly. Deallocating memory was not as difficult. Utilizing vectors made everything a breeze.

In conclusion, I came into this project knowing that I will spend a lot of time on the theme and eventually came up with something fun. Looking at the past final projects, it is amazing how the back bone of the code is essentially the same, but the theme is what kinds the spice and creativity to it all.