Spike: 9

Title: Composite Pattern

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Goals / deliverables:

The goal is expanding on the entities and their properties in the Zorkish Adventure game. Now you should also add a way to modify and observe these entities and expand the command processor to accommodate the changes.

To create this spike, you require:

- Spike 8
- Basic understanding of Composite Patterns

Technologies, Tools, and Resources used:

List of information needed by someone trying to reproduce this work

- Visual Studio 2015
- Composite Pattern
 - https://en.wikipedia.org/wiki/Composite_pattern

Tasks undertaken:

- Create an entity you can modify. Bag:
 - o Can open and close
 - Add/ Remove items
 - o Print all items
- Add new command objects to accommodate the change
- Update the Command Manager.

What we found out:

 When you are creating the bag. You can add a Boolean value to check if the bag is open or closed. This saves a lot of time creating if statements to check.

Open issues/ risks:

Pointers cause too much trouble. If a variable doesn't need to be a
pointer, then don't make it a pointer. If you are not sure if you need a
point for it? Don't make it a pointer until you are required to make it a
pointer.