Questions & Answers from Scribe Notes

- 1. Come up with 2 more definitions for design using your own experience with designing in the past.
- 2. Give examples of designs at the four corners of the Normal-Radical plane.
- 3. List advantages and disadvantages of both structural and decision oriented definitions of what a design is.

DESIGN PATTERNS

- 1. What are some ways of adapting an existing observer class when more info is needed?
- 2. Name some benefits and downsides of mutable and stateless strategy objects.
- 3. What are some issues with the singleton pattern?
- 4. Name some uses of the strategy, adapter, singleton, bridge, and observer patterns.
- 5. In GUI framework, when a button is pressed, an ONButton-PressedEvent is heard...
- 6. Why is it generally considered bad practice to have mutable singleton classes?
- 7. What are some differences between the adapter and the bridge design pattern?
- 8. In Java switching between different layouts using a context makes use of what design pattern?

ARCHITECTURAL STYLES

1. Pipe and filter designs are generally more maintainable. Why?

KWIC CASE STUDY

- 1. What design patterns are used in each of the designs? How does this reflect the use of design patterns as tools for communication in software design? Explain.
- 2. What is the Liskov substitution principle? What meaning does it have in object oriented programming? Does the composite pattern reflect this? Explain.
- 3. For the designs brainstormed in class, what context were they made in? (i.e. What is the main programming paradigm? What functionality was immediately considered? What future functionality was expected?)

GENERAL

- 1. Who is Ted Codd? 34
- 2. What property does the following equation describe? If A = B, and B = C, then A = C.35
- 3. What is a necessary requirement for casual mode creativity to be effective? ³⁶
- 4. What does it imply if a design falls behind the Pareto front? ³⁷
- 34 The inventor of relational databases.
- 35 Transitivity.
- ³⁶ Must had previously employed intense mode creativity.
- ³⁷ There exists at least one design that dominates it in the criteria that are being evaluated.