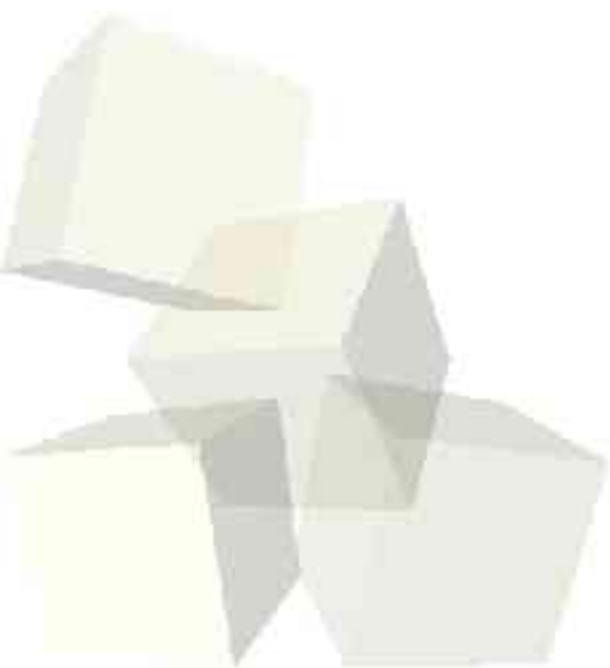




Other Types (but not Objects)

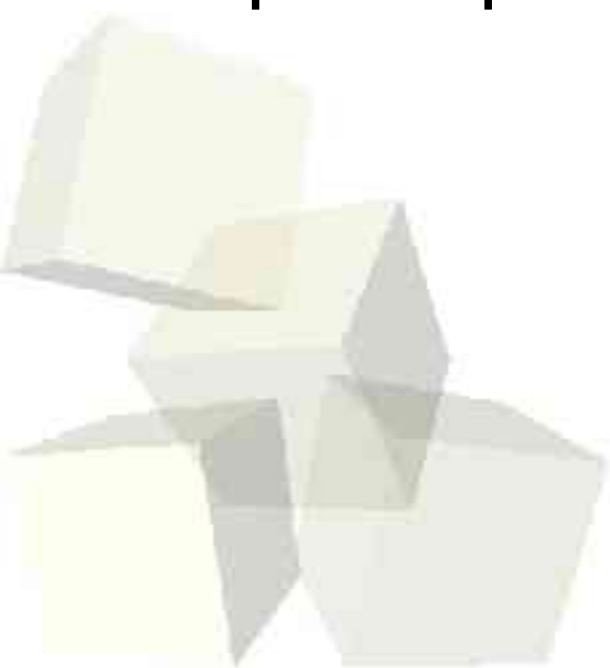
9-28-2004





Opening Discussion

- What did we talk about last class?
- Remember that project ideas are due a week from today.
- Thursday is the last day in the second class participation grouping.





Discussion Questions

- Let's go through your discussion questions.
- Part of today is on the topic of pointers/references. My first semester here I taught a seminar on pointer analysis. That alone is a topic easily large enough to fill two or three semesters of class.





Significant Points

- Associative arrays – allowing non-integer keys
- Record types – or structs as you are used to
 - ◆ Note that structs can all be done with static, fixed offsets which keeps things really fast.
- Unions – discriminated vs. free
- Pointers and references – indirect addressing and dynamic memory
 - ◆ Solutions to dangling pointers
 - Tombstones
 - Locks and keys
 - ◆ Heap management