Scoping Rules

9-21-2004
Opening Discussion

- What did we talk about last class?
- One thing we didn't talk about last class was binding of names so we will have to make sure that turns up in the discussion today.
- Your project ideas are due two weeks from today so make sure that you are considering things to do for that.
Discussion Questions

■ Let's go through your discussion questions for today.
Significant Points

- **Type inference**
- **Scope**
  - Static scoping – determined at compile time
  - Nesting subprograms
    - Embedded functions can't be called unless parent is active.
  - Dynamic scope – what variable you are using is determined at runtime
    - Unsafe and not widely used today.
- **Scope and Lifetime** – static in C/C++ lets memory live beyond scope
More Significant Points

- Referencing environment
- Named Constants
- Variable Initialization – why does only Java initialize everything?