Lecture 02 (continued)
More C++, plus PA1
January 27th, 2016

Announcements
• Reading
  – Next assignment: Chapter 2 for next Monday
  – Some may benefit from reading 9.4, 9.5, 9.7
• Recitations begin this week
  – Unix commands: focus on chmod, tar
• PA1 handed out today
  – Due in 1 week
• ACM Tonight @ 6
  – CSB 130
  – Welcome Back Meeting (+ Windward Code Wars)

Let’s Examine Code
• Topics not to skip:
  – PA1 classes
  – #define idiom
  – using
  – I/O
  – File decomposition
  – Main, its arguments, and its return value
  – Object design for PA1
  – Program decomposition
  – Comments

<iostream>
• Two stream types
  – istream for input
  – ostream for output
• Three default streams:
  – std::cin : input from terminal
  – std::cout : output to terminal
  – std::cerr : output to terminal for errors
• Two operators
  – cin >> a;  // read value into ‘a’ from terminal
  – cout << a;  // write value of ‘a’ to terminal
• One special form
  – std::endl : end of line character + flush command

<iostream>

fstream
• fstreams are streams attached to files
  – ifstream is a subclass of istream
  – ofstream is a subclass of ostream
• fstream constructor takes filenames
  – If ‘s’ is a stream, ifstream istr(s,c_str());
  – If ‘s’ is a char*, istream istr(s)
• So does its open method
• fstream includes iostream