Preliminaries

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Agenda

• Roadmap
• Syllabus
• Academic integrity
• Homework expectations
• Visual Studio
• Wrap-up
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Syllabus

- Instructor: Dmitri Loguinov
  - Office hours: TR 6:45-7:45pm in HRBB 515C
- TA: Matthew Wiecek
  - Office hours: MW 3-4pm in HRBB 501C
- Main text:
- Website: http://irl.cse.tamu.edu/courses/463
  - Slides and future test dates
  - Homework assignments
  - Links to useful material
- Piazza: http://piazza.com/tamu/spring2018/csce463
Syllabus 2

• Must use Visual Studio 2017 + Win 10.0.16299 SDK
  ─ Download from Dreamspark (see https://engineering.tamu.edu/cse/cse-internal/microsoft-dreamspark-for-academic-institutions)
  ─ Or get a Community Edition from Microsoft

• Prerequisites
  ─ CSCE 313: Computer Systems
    • Multi-threading and synchronization
  ─ CSCE 312: Computer Organization
  ─ CSCE 221: Data Structures and Algorithms
    • Queues, sets, hash tables, trees
  ─ Working knowledge of C/C++ and pointers

• Expect heavy coding
Syllabus 3

- Homework (40% of final grade):
  - 4 programming assignments
  - Each explores a different aspect of computer networks
- Exams (60% of final grade):
  - Closed-book, no cheat-sheets
  - 3 quizzes (15% of final grade):
    - Problems from each chapter
  - 3 midterms (45% of final grade):
    - Lecture/homework topics
Syllabus 4

- Grade distribution
  - 80-100% (A), 70-79% (B), 60-69% (C), 50-59% (D), 0-49% (F)
- You cannot pass the class without doing homework
- Student type A: emails for every simple issue
  - How to create a project, start a program, linker errors
  - Instructor ends up googling and sending results back
- Student type B: never asks for help
  - Spends hours or days being stuck on the same problem
- Best route lies somewhere in between
  - Realize that others might have experienced similar problems (e.g., stackoverflow has tons of useful answers)
  - Perform initial investigation, obtain insight into the issue
Syllabus 5

• If nothing useful emerges in 10 minutes, ask for help
  – Through piazza (general concepts) or email (code-specific)
  – During class
  – Office hours (bring a laptop)

• If problem is solved, answer your own question!
  – Help others on piazza

• If emailing
  – Provide a clear description of the problem, where it occurs, and what you have done to debug it

• Read my tutorial on pointers, debugging, APIs
  – Call stack, breakpoints, immediate/watch/thread window, common debugging techniques, stepping thru code
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Academic Integrity

• No teamwork is allowed
  – General discussion is acceptable, but no part of an assignment may be copied from another student

• Academic Rules, Section 20
  – All sources must be properly acknowledged (including MSDN examples and sample code)
  – No information may be copied from the Internet, books, or elsewhere; all work must be original
  – Do not use last year’s homework
  – Do not hire people to write it for you

• All parties involved in cheating will be punished equally
  – Any occurrence: F* in class or expulsion from university
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Homework

- Homework:
  - Due at noon, 20% penalty per day (no points after 5 days)
  - Delays for personal reasons must be requested in advance
- Provide a detailed written report
  - If multiple parts to hw, only the last one needs a report
  - Answer questions posed in the problem statement
- Sample runs
  - Capture screenshots or print into a file details of what your code does on test input data
- Goal: demonstrate in your report that you understood the material
Homework 2

• Hard copy:
  - Both report and code must be submitted before class starts

• Soft copy:
  - Add a comment to the top of each cpp/h file with your full name, class, and semester (e.g., CSCE 463-500 Spring 2018)
  - Create a zip preserving the directory structure and containing only *.sln, *.cpp, *.h, *.vc*proj*, delete everything else
  - Upload to csnet.cse.tamu.edu

• Department servers for this class
  - ts.cse.tamu.edu and ts2.cse.tamu.edu
  - Use Windows Remote Desktop client to login
  - Homework 4 requires admin permissions, but hw1-hw3 can be run on the servers (but things might get slow)
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Wrap-up

• Homework #1 is due in three parts:
  – Part 1 (1/23/18 next Tuesday!): load a single page
  – Part 2 (1/30/18): crawl a list of pages with one thread
  – Part 3 (2/13/18): multi-threaded crawler

• Suggestions:
  – Read my programming tutorial and hw1p1
  – Formulate questions about either
  – Experiment with VS 2017
  – Ask questions on Thursday