CSE 1325: Object-Oriented Programming

Exam #2 Retrospective

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Based on material by Bjarne Stroustrup
www.stroustrup.com/Programming

ERB 402
Office Hours:
Tuesday Thursday 11 - 12
Or by appointment

Point Allocation by Skill

I		15	Vocabulary	93%
II	1	30	Pointers – alloc	
	2		Pointers – dealloc	
	3		Factory Pattern	
	4		Memory Leaks	
	5		Lambda	
	6		Lambda	
	7		gtkmm DrawingArea	
	8		gtkmm, how to use	
	9		gtkmm layout	70%
	10		Scrum	
	11		Pointers vs Ref vs Stack	
	12		gtkmm DrawingArea	
			+ Observer Pattern	
	13		Miscellaneous	
	14		Operator Overloading	
	15		gtkmm	
III	1	7	Pattern Definitions	85%
	2	6	Pattern UML	
	3	7	Sequence Diagram	71%
	4	7	Widget Names	85%
	5	6	DrawingArea	
	6	7	Dialogs	71%
	7 a	4	Operator Overloading	
	b	2	Friend	67%
	c	3	StringStreams	
	d	3	Lambda	63%
	e	3	File Output	
B	1	2	GUI Tool Kits	75%
B	2	2	Process	

The median grade was 77.5%.
This is slightly lower than normal.

This trended the midterm grades downward slightly, now:

A 28%
B 34%
C 19%
D 7%

No one who took the exam is currently failing the class.

I hope to post midterm averages on Thursday (Friday is drop day)

Compensations

- No indication of confusion from typographical errors
- 6/11/5. What is TRUE about lambdas?
  - d. The body may contain only one statement
  - Should read “The body may contain *at most* one statement”
- 7/5/4. What is TRUE about the gtkmm DrawingArea widget?
  - (c) To convert *draw_to* calls into changed pixels, call stroke()
  - That’s FLTK – the gtkmm equivalent method is line_to
- 1 point was added to all scores to compensate

Problem Areas

- Operator Overloading, String Streams, and File I/O… Again
- UML Sequence Diagram
  - Feast or famine – a lot of excellent diagrams, but some that were artistic in a Picasso sort of way
- Reading gtkmm documentation
  - You don’t use it by copying the specification to the exam as code!

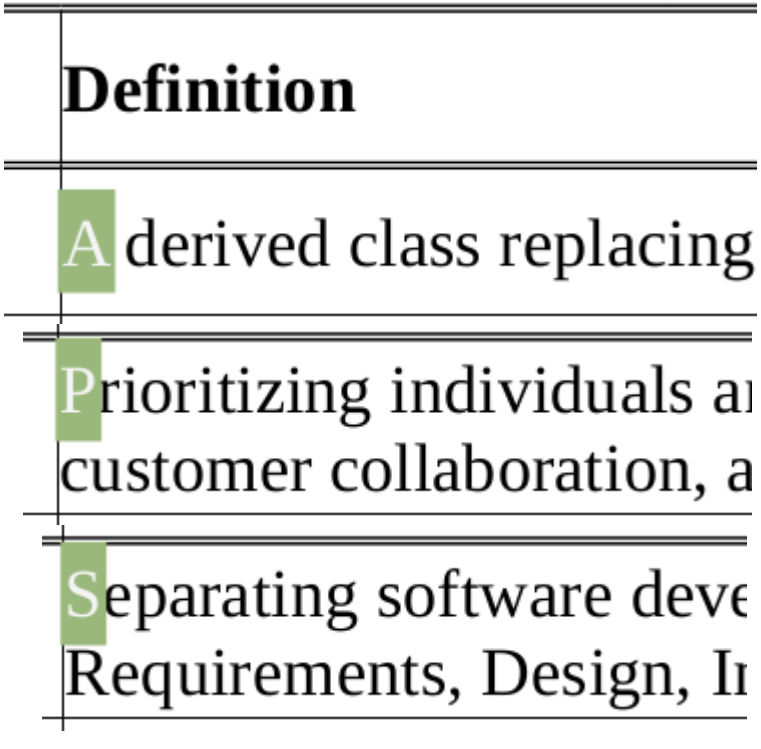
Test Taking Metrics

- 97% still working after 45 minutes; 83% after 60 minutes; 41% at end
  - Compare to first exam: 99% still working after 45 minutes; 71% after 60 minutes; 34% at end
  - Compare to last year: 98% still working after 45 minutes; 78% after 60 minutes; 45% at end
- Half of the exams had been returned by 72 minutes
  - Compare to first exam: By 70 minutes
  - Compare to last year: By 75 minutes

Bottom Line: Exam #2 was slightly longer than Exam #1 and comparable to last semester Exam #2

Identifying Your Test

- Three distinct tests were given for op sec
  - The *order* of many questions changed again
- The tests were named “A”, “P”, and “S” based on the 1st letter of the first definition in Section I



Definition
A derived class replacing
Prioritizing individuals a customer collaboration, a
Separating software deve Requirements, Design, I

Test Markings
Same as Exam #1

- Section I – red “X” marks any errors
- Section II – red “/” indicates incorrect answers, red letters or circles indicate missing answer, +N or N in left column per question indicates points gained for that question
  - Each option is “true” or “false”. +½ if correct, +0 if not.
  - If more than 4 possible, ignore the rest
- Section III – corrections *may* be marked, +N in left column per question indicates points gained for that question
- Sum of points gained per page indicated at the bottom of each page
- Final *raw* score is on page 2 or 3 and *final score* is on Blackboard

Review of the Exam Key

- Correct answers shown by variant
- Rubric is in line

Preview of the *Rest* of Spring 2018

Tue, Mar 27			Exam #2 (Last day to drop is March 30)
Thu, Mar 29	18		Return Exam; Intro to the Class Project
Tue, Apr 3	19	17	Heap, Pointers, Destructors, and Polymorphism
Thu, Apr 5	20	18, 19	Templates, Constructors, and Assignment Operators
Tue, Apr 10	21	20, 21	Containers, Iterators, and Maps; Decorator Pattern
Thu, Apr 12	22	23, 24	Text Manipulation, Regular Expressions, and Numerics
Tue, Apr 17	23	25	Embedded Programming; UML Statechart Diagram, State Design Pattern
Thu, Apr 19	24		Concurrency and Hyperthreading; Anti-Patterns
Tue, Apr 24	25		Packaging and Deploying Apps; UML Deployment Diagram; End to End Software Lifecycles
Thu, Apr 26			TA or Guest Lecture Day
Tue, May 1			Final Exam Review
Thu, May 3			**Project Demos:** (May 4 is last day of classes)
Tue, May 8			Final Exam: Section 002 (8 am) at 8-10:30 am
Thu, May 10			Final Exam: Section 003 (9:30 am) at 8-10:30 am

Final Project (Homeworks #8 - #12)

- Propose and prototype management software for the Mav's Ice Cream Emporium
  - Perform the requirements analysis and design
  - Implement in 5 sprints
  - Work individually
  - Compete to win fame, glory, and bonus points!
- Details are on Blackboard

Ice cream sundae image is in the public domain
https://en.wikipedia.org/wiki/Sundae#/media/File:StrawberrySundae.jpg