#### CMPT14x Course Review

4 Dec 2006 CMPT14x Dr. Sean Ho Trinity Western University Course evaluations
Quiz10 today



#### **Course evaluations**

Large Scantron sheet: Instructor's Name: Sean Ho Date: 4 Dec 2006 • INSTR. ID: 3514 • COURSE ID: CMPT 145: 350 145 18 CMPT 141: 350 141 01 CMPT 143: 350 143 01 Small sheet for handwritten feedback Return envelopes upstairs to Cathy White

# Addendum: **BST** delete

If node is a leaf: just delete it (1)
If node has just one child: (3)
delete node and move child up
If node has two children: (2)
Swap node with successor and
Delete node according to case 1 or 2



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## Semester Review: major concepts

Problem solving / design process

- Program elements:
  - Expressions, sequence/if/while/etc.
- Program organization:
  - Procedures, modules, libraries, scope
- Data types: lists/arrays, classes, sets, dict
- Standard libraries: math, random, file I/O
- Exceptions
- OO concepts



## CMPT 140 Review: Chapters 1-8

Ch1: Problem-solving Ch2: Your first program Ch3: Program structure Ch4: Procedures/functions Ch5: Arrays/lists Ch6: Library modules: math, random Ch7: Applications Ch8: Number bases and memory/storage



# **CMPT 145 Review**

- Sets (M2 ch9)
- Dictionaries (Py ch10)
- Object-oriented programming (Py ch12-14)
- Exceptions (Py tut 8)
- Namespaces and scope (Py tut 9)
- Pointers and linked lists (M2 ch12, Py ch17)
- Trees, BST (M2 ch14, Py ch20)



## Where to go from here?

Now you know the concepts; learning C/Java/M2/etc. is mostly just learning syntax • C++: CMPT 160+165 Java: CMPT 160+167 M2: notes from old CMPT145 Learn by example: Find a small, well-written application and Figure out how it works; read the code Learn by doing: Modify/extend, or create your own app!

CMPT14x: review



Lab10 (M2) due this week
Paper due by Wed!
Paper copy: before I leave Wed at 5pm, or
Electronic copy via email (preferred): by midnight Wed
Final exam: Sat 9Dec 2-4pm here

Double-check quiz/lab/hw/exam scores on eCourses

Should be all updated by the final exam

