Intro CS at U of T

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Presentation Website

Resources that we discuss during our presentation today (including these slides) can be found at the website below:

http://uoft.me/hsws2018

CSC108 and CSC148

- Our CS students take both CSC108 (Fall) and CSC148 (Winter) in their first year
 - CSC108: Intro to Programming (teaches/uses Python)
 - CSC148: Intro to CS (uses Python)
- Grades in these courses determine eligibility for entry into CS programs

CSC108 Topics

- Functions
- Booleans, strings
- Conditionals, while-loops, for-loops
- Lists, files, dictionaries
- Testing
- Intro to object-oriented programming, sorting, algorithmic efficiency

CSC108 Labs

- CSC108 typically has students working at their own pace in labs led by our TAs
- During labs, students work with partners on exercises related to course content, explore tools like the Python Visualizer (http://www.pythontutor.com), etc.

CSC108 Early Assessments

- ► CSC108 typically has three assignments
- We have two Assignment 1s to share
 - Word Search
 - Bob's Compatibility Calculator

CSC108 Grading

- Typical grading scheme
 - ▶ 70% correctness, autograded
 - ▶ 20% design, graded by TAs
 - ▶ 10% style (naming, formatting, docstrings), graded by TAs

CSC108 Tests

- CSC108 typically has one or two 50-minute term tests
 - Question types: tracing code, explaining code in English, writing code
- ▶ We have a sample midterm exam to share

CSC148 Topics

- Object-oriented programming
- ► Linear abstract data types (stacks, queues)
- Exceptions
- Recursion
- Trees, binary trees, binary search trees
- Linked lists
- Algorithmic efficiency
- Sorting

CSC148 Early Assessments

- CSC148 typically has two assignments plus several smaller exercises
- ▶ We have an exercise and an Assignment 1 to share
 - Stacks/queues exercise
 - Warehouse Wars assignment

CSC148 Tests

- CSC148 typically has one or two 50-minute term tests
 - Question types: tracing code, explaining code in English, writing code, object-oriented analysis
- ▶ We have a sample midterm exam to share