Working from home today

- I’m at home with a sick child
- I hope to be available for project help 10-noon and 1:30-2:30pm today
- email: pugh@cs.umd.edu
- AIM: pughcsumdedu
- gtalk/jabber: bill.pugh@gmail.com
Midterm

- Will be handed back and discussed Monday
Special project stuff

• imagine the future server up and running
• let me know if you want an account
• mac mini still on order, Apple just refreshed models
• Still no proposals to spend the thousands of dollars sitting there, waiting for undergraduates
Search Tree Project

• Due today, 6pm
• As of 7am this morning, 4 students hadn’t started yet
  • 8 others were failing release tests
• unofficial lab time today, 11-noon
• My office hours: 1:30 - 2:30pm (online only)
• Raul’s office hours: 2-3pm
Search tree project

• As of last night, 6 students were failing the release test for
  • insert 2, insert 1, insert 3, delete 2
  • check size
  • check value for 1, check value for 3
• Write this test case before you do any more coding
test case: remove center

SearchTreeMap<String, String> s = new SearchTreeMap<String, String>();
s.put("2", "b");
s.put("1", "a");
s.put("3", "c");
s.remove("2");
assertEquals(2, s.size());
assertEquals("a", s.get("1"));
assertEquals("c", s.get("3");
assertNull(s.get("2"));
Writing tests

• If you have failing public or student tests, debug them

• If you don’t have any student tests, or your tests don’t cover some methods, write test cases

• If you are failing release tests and don’t know why, write more test cases
Writing tests

• At Google, an engineer will spend more than a third of their coding time writing tests for their own code

• Get the code right the first time with confidence

• Make sure that future changes don’t break something
Plan for today and weekend

• Open lab time for rest of class
• Monday
  • No need to prepare; enjoy weekend
  • Midterm review
  • Skip lists
• next project
Lab time in class

• If you have completed the project
  • (submitted, passed all release tests, don’t plan anymore work on it)
• you can help other students while in class
  • Your laptop/notes must remain closed
  • You shouldn’t type any code for them
  • Mix it help: don’t help your buddy or the person you alway sit next to; find someone else who needs help
• If you help another student, they must put your name in a file README.txt at the top level of their project