

ICA 9: Fault Localization

ICA 9 - Overview

Goal: Perform fault localization using the Tarantula method

1. Track statements executed by test cases and the test cases' pass/fail status
2. Run test cases on bookstore
3. Identify suspicious statements

ICA 9 - Hints

- Prepare a really good test suite for bookstore ahead of time
- Have implementation of Tarantula to run in class
- Practice!
- Automation!

Blank

Implement

- Design a test suite that makes the seeded errors the most suspicious
- Generate report showing suspiciousness and calculations for each fault

Grading

100 total points

- 15 points for the quiz
- 25 points for in-class completion
- 60 points (partial credit available)

15 points for each seeded fault

- 15 points awarded to best result, remainder calculated as percentage

Submit

By 4:50pm **sharp** submit:

- Java code
- Suspicious rankings output by your tool
 - Show which test cases pass/fail and calculations
- Test suite