Activity: Fault, Error, Failure
(no submission)

Purpose: Understand the differences between fault, error, and failure. Practice for the homework.

Instruction: Work with your neighbors in groups. Let's consider some faulty programs. I will put the code up for viewing on the screen. Focus on answering the questions:

1. What is the fault?

2. If possible, find a test input that does not reach (i.e., not execute) the fault.

3. If possible, find a test input that reaches the fault, but does not result in an error.

4. If possible, find a test input that results in an error, but not a failure.
5. Find a test input that results in a failure

6. Identify the *first* error state for the given test (how about the test case from the previous question?)

7. Why do we practice finding test inputs for questions 2-5?