

# CS 4501/6501: In-class 1

## Fault, Error, Failure Model

24-Aug-2017

Names:

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

**Instruction:** Work with your neighbors in groups. 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