Today

- Logistics: in-class exercise 1
- Brief overview of mutation analysis
- 3 paper presentations
  - The Major mutation framework (10+3 min)
  - Are mutants a valid substitute for real faults in software testing? (18+5 min)
  - Can testedness effectively be measured? (18+5 min)
- Open discussion

Logistics

In-class exercise 1: Software testing
- **10/20 at 4pm -- bring your laptop!**
- Groups of size 2-4
- More details on Moodle

Mutation analysis: overview
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Each mutant contains one small syntactic change

```java
public float avg(float[] data) {
    float sum = 0;
    for (float num : data) { // Original: sum += num;
        sum += num;
    }
    return sum / data.length;
}
```
Mutation analysis: overview

Paper presentations

- The Major mutation framework (10+3 min)
- Are mutants a valid substitute for real faults in software testing? (18+5 min)
- Can testedness effectively be measured? (18+5 min)