Last Time
- ListADT with Arrays
- Iterators
- Primitives vs. References Review
- HW1 due 11 PM on Monday, June 22 2015.
- P1 due 11PM on Monday, June 29 2015

Today
- Error Handling
- Exceptions
- Week in Review

Next Time
- Read: Linked Lists
- HW1 due 11 PM on Monday, June 22 2015.
- P1 due 11PM on Monday, June 29 2015
Error Handling

What causes errors?

Errors can arise due to:

Examples of Programmer errors:
How do we handle them?

Exceptions

What are they?

Java Syntax

    throw exceptionObject

Example

    throw new NoSuchElementException();
Behind the Scenes

Handling Exceptions with try-catch blocks

Java syntax

Example

Handling Exceptions with throws

Java syntax

Example

```java
public static void main(String[] args) throws IOException {
```

Cea Stapleton
Defining Exceptions - Examples

Checked

extends Exception

Unchecked

extends RuntimeException

Exceptions – Example
Exceptions – Example (cont'd)

What gets printed when:

- methodC throws a red exception?
- methodD throws a red exception? *
- methodE throws a red exception? *
- methodC throws a blue exception? *
- methodC throws a green exception? *
- methodD throws a green exception?
- methodC throws a yellow exception? *
- methodD throws a yellow exception? *
- methodE throws a yellow exception? *
- methodD throws a orange exception? *

* means it is left as an exercise for you. Testing code provided on website.
Week in Review

- Abstraction
- Interfaces, ADTs
- Objects, casting, autoboxing
- Generics
- Qualities of good software
- Sack ADT
- List ADT
- Iterators, List Iterators
- Primitives vs. References
- Exceptions