Lecture 7 - Sep. 28

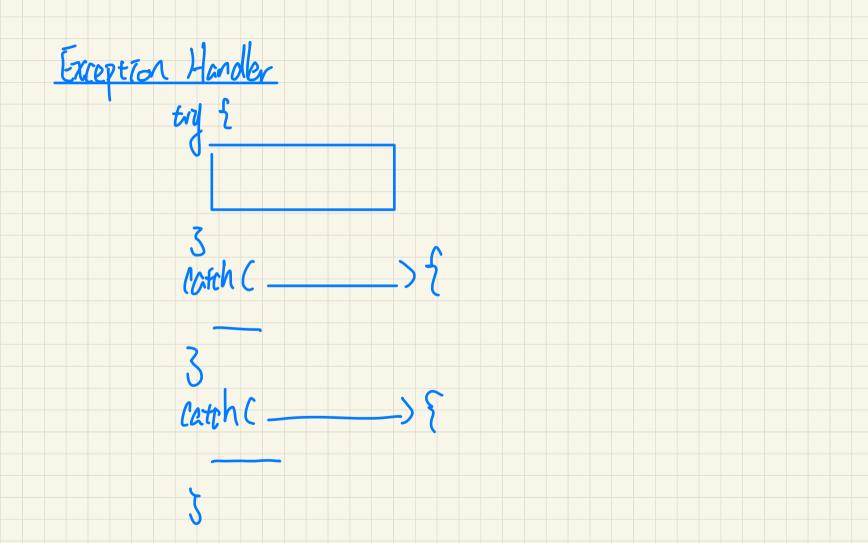
Exceptions

To Handle or Not to Handle?

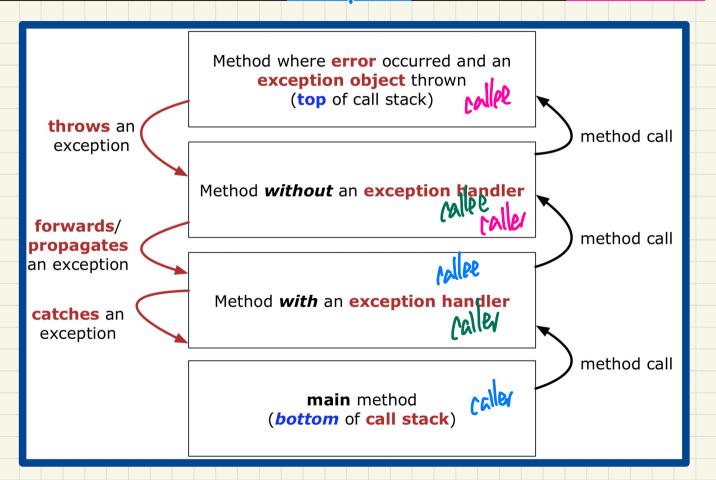
Error Handling using Exceptions

Announcements

- Lab1 due at 2pm today (Wednesday)
- WrittenTest1
 - Marks to be released on Friday
 - Visit my office hours to discuss questions if you wish
- Programming Test 1
 - Guide & Practice Test to be released (bteo Thursday)
 - A Short Mockup Test to be arranged



What to Do When an Exception is Thrown: Call Stack



Catch-or-Specify Requirement

```
The "Catch" Solution: A try statement that catches and handles the exception

(without propagating that exception to the method's caller).

main(...) {
    Circle c = new Circle();
    try {
        c.setRadius(-10);
    }

catch (NegativeRaidusException e) {
```

The "Specify" Solution: A method that specifies as part of its header that it may (or may not) throw the exception (which will be thrown to the method's caller for handling).

```
class Bank {
    Account[] accounts; /* attribute */
    void withdraw (double amount)
    throws InvalidTransactionException {
        ...
        accounts[i].withdraw(amount);
        ...
}
```

