COP 3330 11/4/26

Continuing w/ Exception

- 1 example Catching a Java exception
- 2 example make our own ~~expe~~ exception

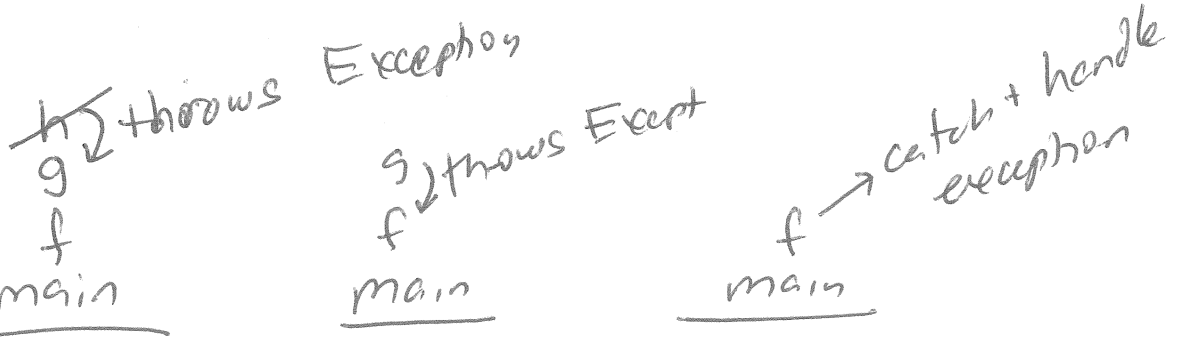
Program 8

Take P3 and add formal Exception handling.

- Add 3 new Exception
- Catch handle these just like you did originally

Catch InputMismatchExceptions

When an exception occurs we can either
(a) throw it to ~~who~~ who the call came from
(b) catch it.



Call Stack

```
public class MyException extends Exception {
    public MyException(String s) {
        super(s);
    }
}
```

Really boilerplate....

from there you can throw this exception (call constructor w/ string)

Address Book

Ver 1 - AddressBook

main reported throws FullAddressBookException

↳ when we ran it, JVST crashed when we tried to add 11th person

Ver 2 - AddressBook2

main - try-catch for the FullAddressBookException

⟹ told user no change made

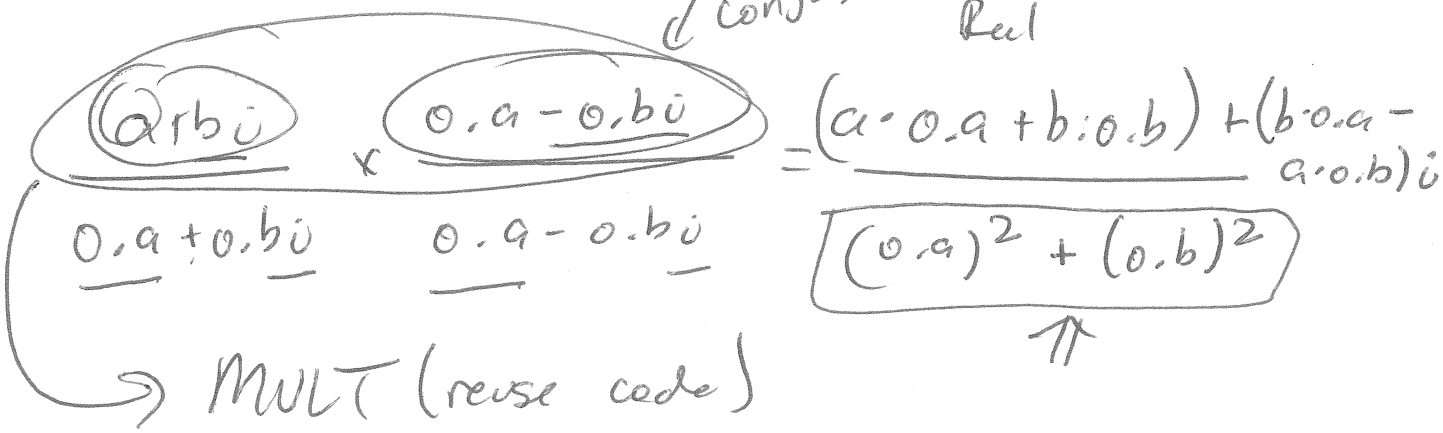
⟹ back to main menu.

Second Example

Complex Numbers a+bi

Divide By Zero Exception 0+0i

$\frac{a+bi}{0+0i}$ } This is bad!



Reading Input from a File

```
Scanner fin = new Scanner(new File("hello.txt"));
```

↳ still a Scanner object →

```
nextLine(); // if do this, do only this
next()
nextInt()
nextDouble()
```

↓

```
end  fin.close(); // Closes the file
```

Imports add

```
import java.io.*;
```

main

```
psvm(sa) throws Exception {
```