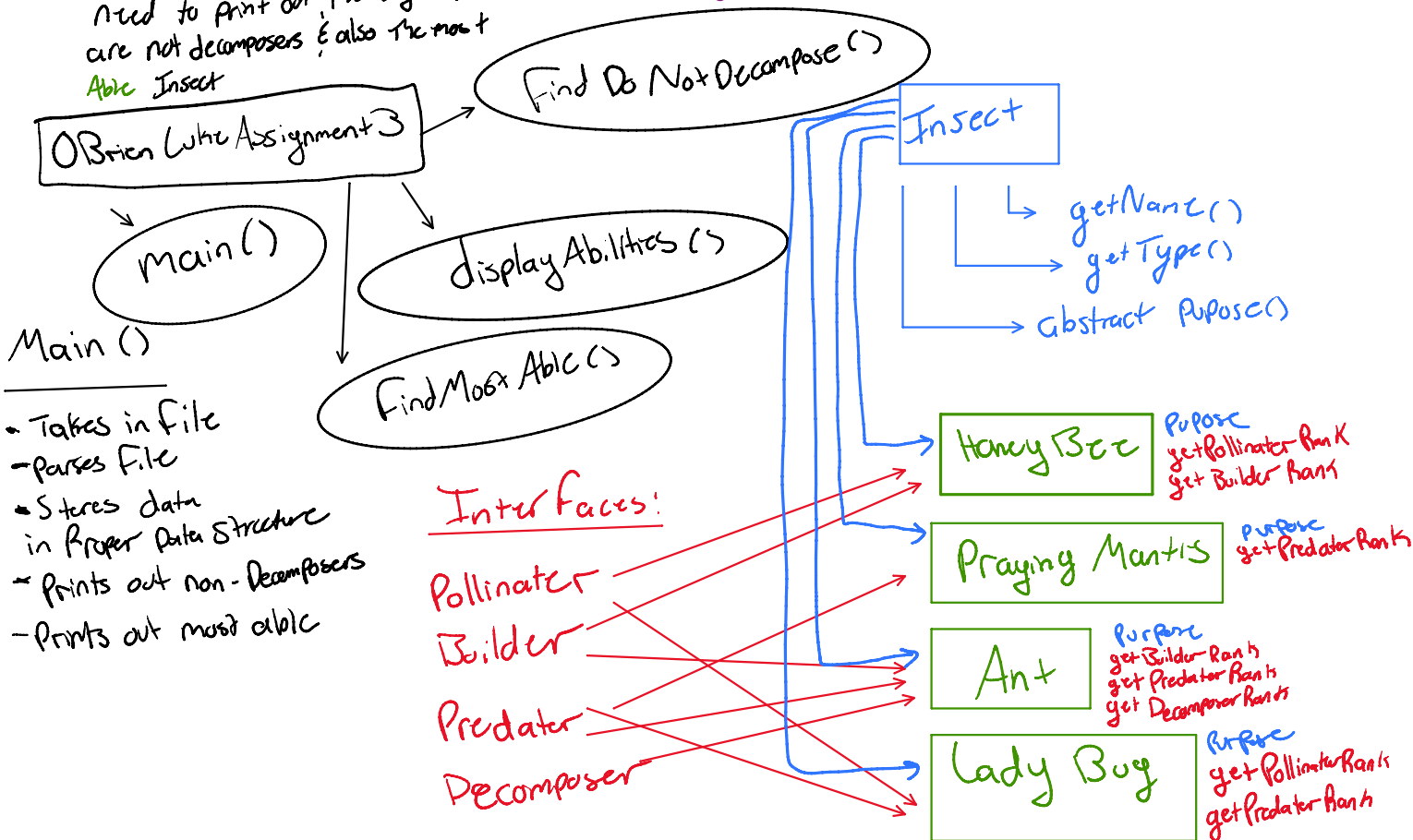# Assignment #3 Luke O'Brien

CS 1450:002

Problem:

There is a file full of insect data. It has to be imported & parsed, then stored in special Data Structures that separates by Bug while also storing Ability Values. We then need to print out the bugs w/ values that are not decomposers & also the most Able Insect

What I don't know:
- How to check what Interfaces are being implemented in class
- How to Access Sub Class Methods when dealing with 'Insect' object

O'Brien Luke Assignment 3

Find Do Not Decompose ()

Main ()

Display Abilities ()

Find Most Able ()

Insect
- getName ()
- getType ()
- abstract Pupose ()

Main ()

- Takes in file
- Parses File
- Stores data in Proper Data Structure
- Prints out non-Decomposers
- Prints out most able

Interfaces!

Pollinater
Builder
Predater
Decomposer

Honey Bee — Purpose: getPollinater Rank, get Builder Rank

Praying Mantis — Purpose: get Predater Rank

Ant — Purpose: get Builder Rank, get Predater Rank, get Decomposer Rank

Lady Bug — Purpose: get Pollinater Rank, get Predater Rank

What I have learned:

- I learned about *instance of* & what its use cases are.
- I Also learned how to Cast an object.
- I learned to put "throws File Not Found Exception" next to a method.
- Learned more methods you can use with *ArrayList*