BIG-IDEA :: an introduction of a new topic, a connection to prior lesson or discussion for application here in code, etc.

//Data search and organization

//Importance of saving and recompiling after editing code

BEEG-REVEAL :: this is gonna blow yer minds...

Let's see what this thing does after some minor tweaking… 😊

STUDENT-PROMPT: a specifically-worded question you want to ask, or a general solicitation for input, etc

Must Answer Questions

//What errors do you see here? What is preventing this code from being run successfully?

//Why do we need a main method every time we want to run a code?

//What is this code trying to accomplish?

```
import java.util.*;


public class linearSearch
{
  // DELIBERATE-ERROR :: specific code snippet or a general approach that is a bad fit for the situation, is flat-out wrong, or will lead to a compile- or run-time error, etc.


  // FIRSTDRAFT :: code that will work for now, but which you intend to replace later
  //change e to element
  //enter static and create a main method and class for this


  // REVISION vX :: better versions of firstdraft code...
```

1. Samuel Lojacono
July 15, 2022 at 2:34:00 PM
//error #1 - no static term
//what is this code doing exactly?

//e needs to be changed to element
//need a class and main method
//static was not put here

2. Samuel Lojacono
July 15, 2022 at 2:35:00 PM
//missing main method or driver.java file
//no way to test code as is, this is why we need a main method

```
  // CODE: This method should search through data and return the index
of the first time value appears in data. If value is not in data
return -1.
1   public static int linearSearch(int value, ArrayList<Integer> data)
  {
    int foundIndex = -1;

    for (int i=0; i < data.size(); i++)
    {
      int element = data.get(i);
      //error #2: element mis-nomenclature
      //what is e?  is e element?
      //possible typographical error
      if (element == value)
      {
        foundIndex = i;
        break;
      }
    }
    return foundIndex;
  }
2   public static void main(String[] args)
  {
    //insert values into ArrayList being used
    ArrayList<Integer> stuff = new ArrayList<Integer>();
    stuff.add(15);
    stuff.add(19);
    stuff.add(25);
    stuff.add(16);
    stuff.add(15);
    stuff.add(97);
    stuff.add(14);
```

```
    stuff.add(18);
    System.out.println(linearSearch(23,stuff));
  }
}
```