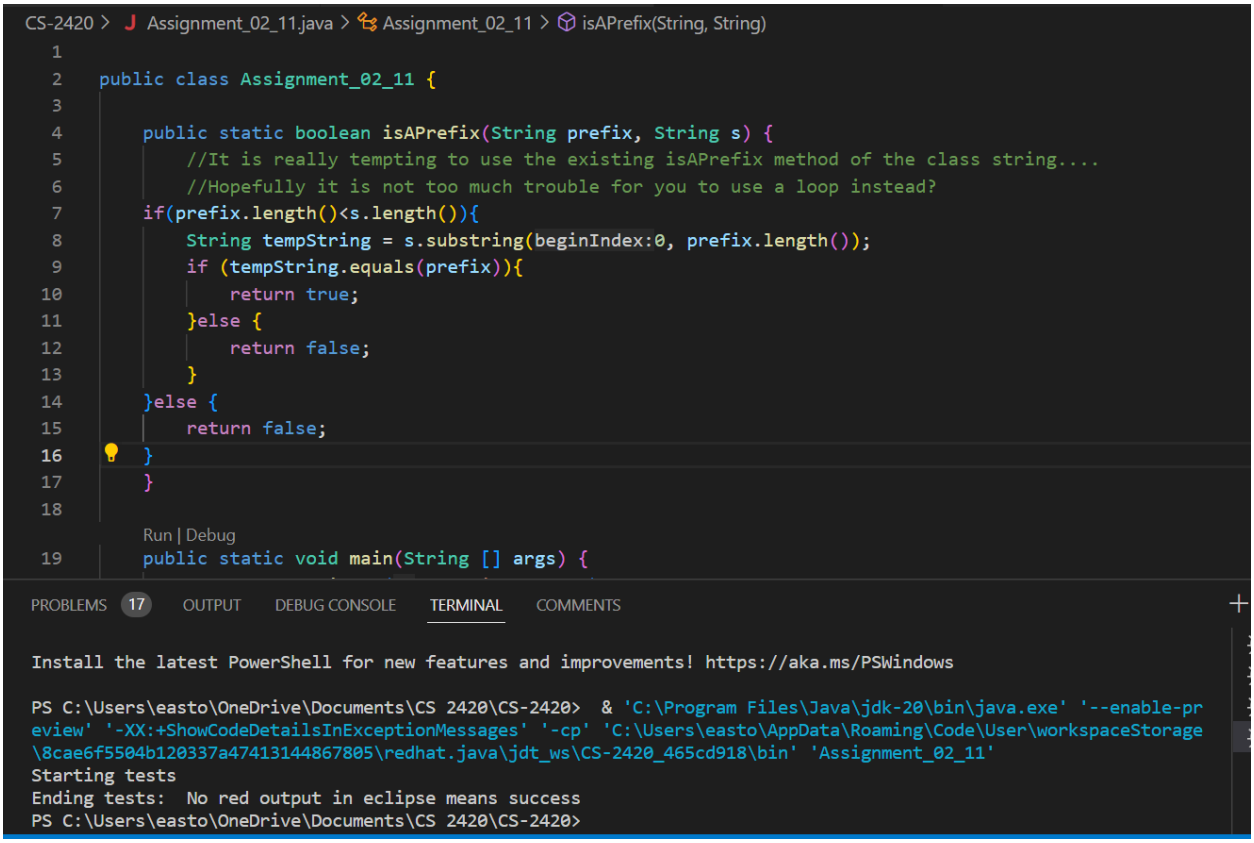
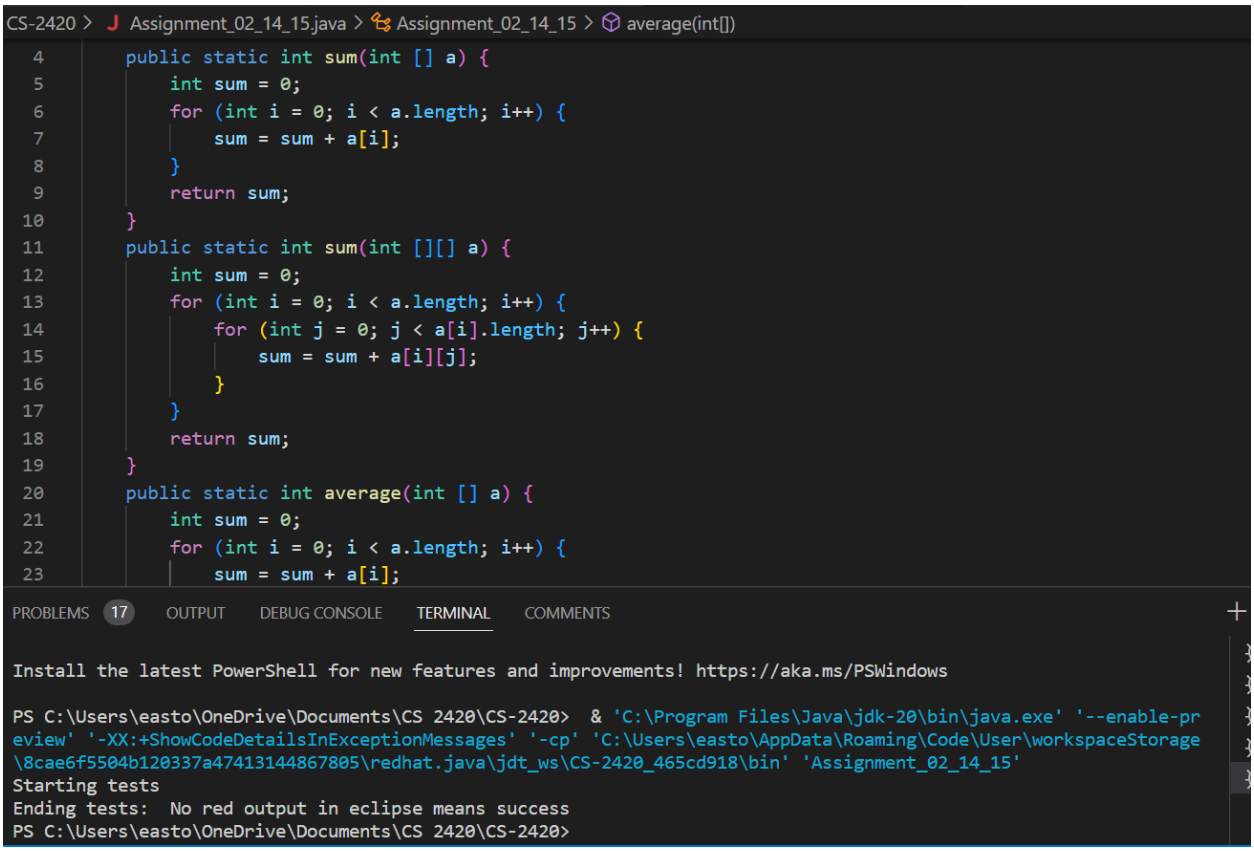
2.11

Instead of using a loop and using the charAt for this, I thought of a way which I though may be more efficient using the substring to cut the string to the correct length.



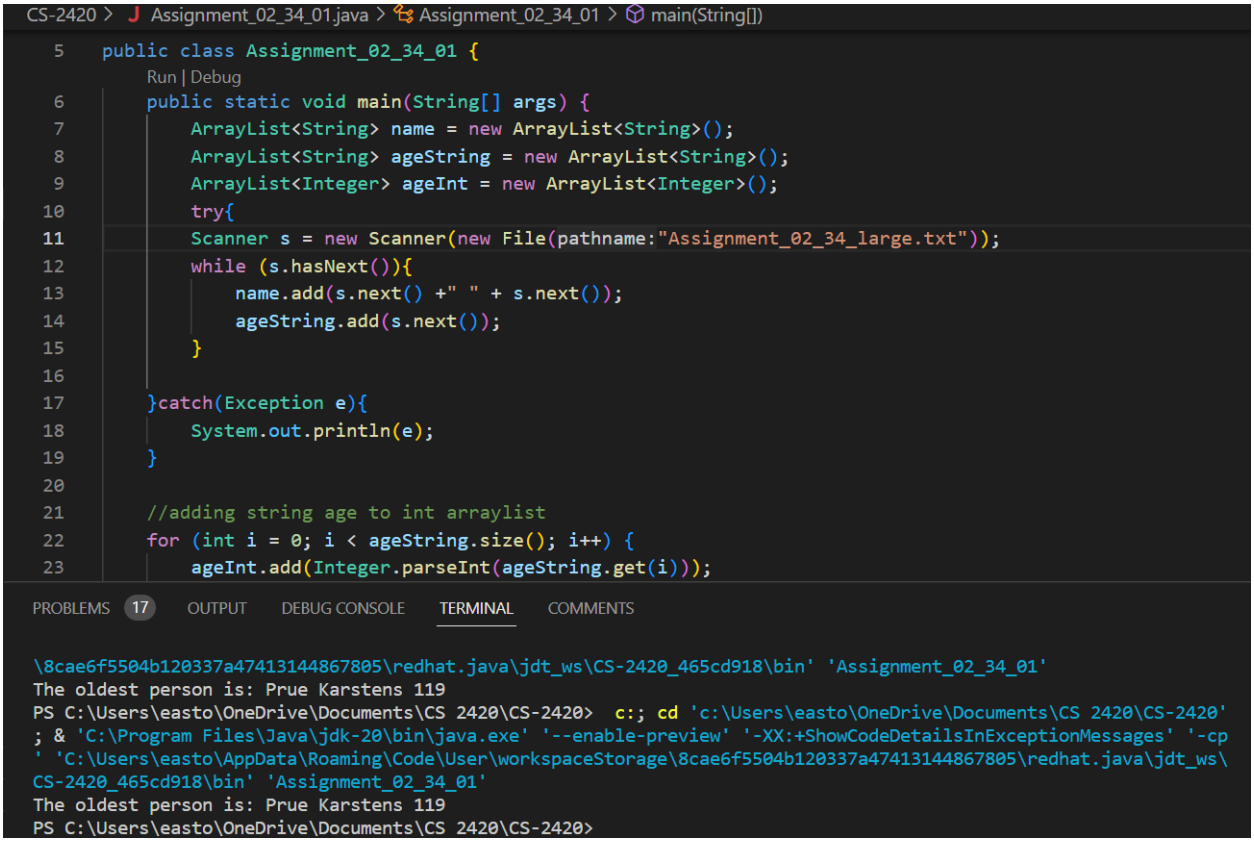

2.14

Here, I used very similar code on all 4 of these methods. We just set the sum variable to 0 and then iterate through the array and add each number to the sum. If we are calculating the average then we just take the length of the array and use that to divide the sum.

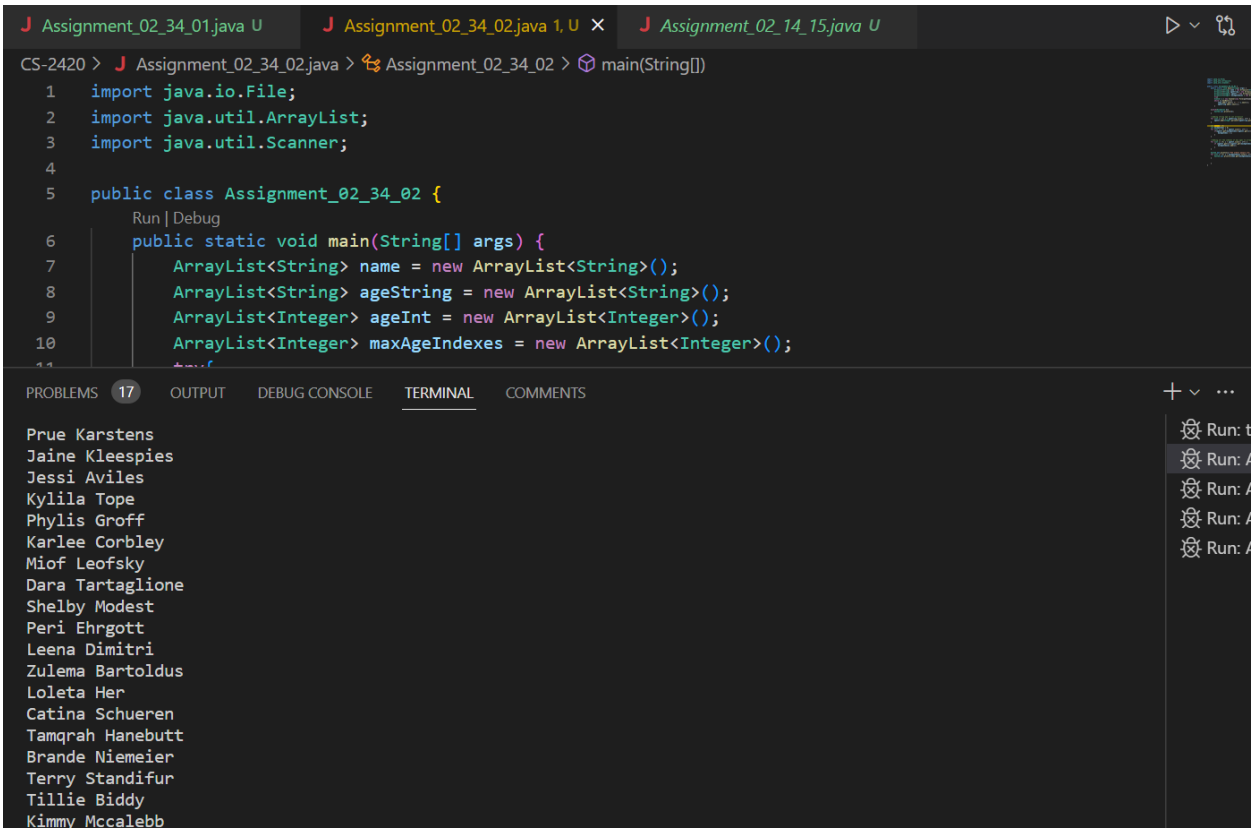

CS-2420 > Assignment_02_14_15.java > Assignment_02_14_15 > average(int[])
4 public static int sum(int [] a) {
5 int sum = 0;
6 for (int i = 0; i < a.length; i++) {
7 sum = sum + a[i];
8 }
9 return sum;
10 }
11 public static int sum(int [][] a) {
12 int sum = 0;
13 for (int i = 0; i < a.length; i++) {
14 for (int j = 0; j < a[i].length; j++) {
15 sum = sum + a[i][j];
16 }
17 }
18 return sum;
19 }
20 public static int average(int [] a) {
21 int sum = 0;
22 for (int i = 0; i < a.length; i++) {
23 sum = sum + a[i];
PROBLEMS 17 OUTPUT DEBUG CONSOLE TERMINAL COMMENTS
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\easto\OneDrive\Documents\CS 2420\CS-2420> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\easto\AppData\Roaming\Code\User\workspaceStorage\8cae6f5504b120337a47413144867805\redhat.java\jdt_ws\CS-2420_465cd918\bin' 'Assignment_02_14_15'
Starting tests
Ending tests: No red output in eclipse means success
PS C:\Users\easto\OneDrive\Documents\CS 2420\CS-2420>

2.34

Here, I made use of for loops to check each index in the array that we took from the file information. We then compared each number to check who the oldest was and what their index was in the array.




Getting the console to print all people if their ages were a tie was a little more involved but what we were able to do is get the max age and then run back through the array and check to see where each instance of that particular age shows up.


Assignment_02_34_01.java U
Assignment_02_34_02.java 1, U
Assignment_02_14_15.java U
CS-2420 > Assignment_02_34_02.java > Assignment_02_34_02 > main(String[])
1 import java.io.File;
2 import java.util.ArrayList;
3 import java.util.Scanner;
4
5 public class Assignment_02_34_02 {
Run | Debug
6 public static void main(String[] args) {
7 ArrayList<String> name = new ArrayList<String>();
8 ArrayList<String> ageString = new ArrayList<String>();
9 ArrayList<Integer> ageInt = new ArrayList<Integer>();
10 ArrayList<Integer> maxAgeIndexes = new ArrayList<Integer>();
PROBLEMS 17
OUTPUT
DEBUG CONSOLE
TERMINAL
COMMENTS
Prue Karstens
Jaine Kleespies
Jessi Aviles
Kylila Tope
Phylis Groff
Karlee Corbley
Miof Leofsky
Dara Tartaglione
Shelby Modest
Peri Ehrgott
Leena Dimitri
Zulema Bartoldus
Loleta Her
Catina Schueren
Tamqrah Hanebutt
Brande Niemeier
Terry Standifur
Tillie Biddy
Kimmy Mccalebb