2.11 Methods

```
public static boolean isAPrefix(String prefix, String s) {

// Check to make sure the given String s
// isn't shorter than the prefix
if (s.length() < prefix.length())

{

return false;
}

// Loop through the first x chars as given by the preix length
for (int index = 0; index < prefix.length(); index++)

{

// If they don't match return
    if (s.charAt(index) != prefix.charAt(index))

{

return false;
}

// If we didn't return false then it must be true
    return true;
}
</pre>
```

2.11 Output

```
c:\Users\wes\github-repos\cs2420_summer2023\Chapter2\Assignment_02_11 - VS Code Console
Starting tests
Ending tests: No red output in eclipse means success
Press any key to continue . . .
```

2.14 & 2.15 Methods

```
public static int sum(int [] a) {
 9
17
              public static int sum(int [][] a) {
18
                    for (int[] values : a)
              public static int average(int [] a) {
32
              public static int average(int [][] a) {
    // length is the total amount if items
    // sum will be the final sum
37
                    // add the amount to length
// then add up the sums
for (int[] values : a)
```

2.14 & 2.15 Output

Press any key to continue . . . _

```
c:\Users\wes\github-repos\cs2420_summer2023\Chapter2\Assignment_02_14_15 - VS Code Console

Starting tests

Ending tests: No red output in eclipse means success
```

2.34 Classes

```
public class Entry {
public String name;
public int age;

public Entry(String _name, int _age)

fublic Entry(String _name, int _age)

fublic
```

2.34 Methods

Review: Chapter 2 Programming

```
public static ArrayList<Entry> readFile(String filename)
{
    // This will be the list of entries in the file
    ArrayList<Entry> ret = new ArrayList<();

FileInputStream inputStream = null;
BufferedInputStream input = null;

try
{
    inputStream = new FileInputStream(filename);
    input = new BufferedInputStream(inputStream);

String data = new String(input.readAllBytes());

String[] lines = data.split(regex:"\r\n");

for (String line : lines)
{
    // Split each line of the file and add as an entry
    String[] contents = line.split(regex:"");
    String name = String.format(format:"%s %s", contents[0], contents[1]);
    int age = Integer.parseInt(contents[2]);

ret.add(new Entry(name, age));

//System.out.format("%s %d%n", name, age);
}

input.close();

string name = String.format("%s %d%n", name, age);
}

ret.add(new Entry(name, age));

//System.out.format("%s %d%n", name, age);
}

return ret;
}
</pre>
```

```
public static void outputNames(ArrayList<Entry> oldest)
{

// Print some stars and then loop through
// the oldest List and print
System.out.println(starLine());
for (Entry entry : oldest)
{

System.out.format(format:"%4s-%20s :%d%n", ...args:"", entry.name, entry.age);
}

System.out.format(format:"%s%n%n", starLine());

system.out.format(format:"%s%n%n", starLine());

public static String starLine()
{

// draw a Line of stars
String stars = String.format(format:"%20s", ...args:"");
stars = stars.replace(target:" ", replacement:"*");
return stars;
}
```

2.34 Output