

Mastery EvensAndOdds Error Log

Credit Name: CSE 2120 Data Structures 1

Assignment Name: Mastery EvansAndOdds

Describe the errors you've encountered while working on this assignment. What caused the error and how do you overcome the error?

Error

The error I made in this code was related to the printing of the evens and odds ArrayLists

As you can see below in the original code I straight up printed the evens and odds ArrayList.

```
System.out.print("EVEN: ");
System.out.print(evens);

// Display all odd numbers
System.out.print("\nODD: ");
System.out.print(odds);
```

Now this actually still works printing all of the even and odd numbers, however the print statement will always print the array bracket[] followed by the elements.

```
EVEN: [88, 18, 14, 50, 86, 20, 16, 96]
ODD: [13, 41, 77, 79, 17, 41, 39, 15, 83, 29, 49, 33, 17, 63, 81, 97, 43]
```

This doesn't look that bad however after doing some more research on W3schools it seems like most java programmers prefer to use an enhanced for loop called a for-each loop.

(↓this is where I learned for-each loops with arrays↓)

https://www.w3schools.com/java/java_foreach_loop.asp

These loop look like what's below and the difference is that now instead of straight up printing the array, this for loop will go through each element in the evens or odds ArrayList (specific to the for loop it's in) and print these individual elements out followed by a space for neatness.

```
System.out.print("EVEN: ");
for (int even : evens) { // Loop t
    System.out.print(even + " ");
}
// Display all odd numbers
System.out.print("\nODD: ");
for (int odd : odds) { // Loop thr
    System.out.print(odd + " "); /
```

The new output will look like this, becoming a bit neater and removing the array brackets.

```
EVEN: 90 82 80 40 70 68 44 68 58 28 50 82 16 50 52 2 48
ODD: 5 1 63 9 61 49 55 19
```