

Credit Name: CSE 2120 Data Structures 1

Assignment Name: EvenAndOdds Mastery Project

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

While working on the EvensAndOdds application, one issue I encountered was accidentally categorizing all numbers as even due to a logic error in my loop. Initially, I wrote the condition for even numbers as if `(number % 2 == 0 || number % 2 != 0)` instead of separating the logic for evens and odds properly. This caused every number to be classified as even. This error happened because I misused the logical OR (`||`) operator in my condition, which made the check always true. I revised the condition to specifically separate the even and odd checks into **two** different branches.

```
if (numbers[i] % 2 == 0) {  
    evens.append(numbers[i]).append(" ");  
} else {  
    odds.append(numbers[i]).append(" ");  
}
```