Bug Logs

Credit name: Chapter 9
Assignment Name: Mastery - EvenAndOdd

```java
for (int i = 0; i<cons; i++) {
    if ( EvenAndNum[i] % 2 ==0) {
        Even ++;
    }
    else if ( EvenAndNum[i]%2==1) {
        Odd ++;
    }
}
int[] even = new int[Even];
int[] odd = new int[Odd];

for (int i =0; i<cons; i++) {
    if (EvenAndNum[i]%2==0) {
        even[i] = EvenAndNum[i];
    }
    else if (EvenAndNum[i]%2==1) {
        odd[i] = EvenAndNum[i];
    }
}

System.out.println("Even: ");
for (int i = 0; i<even.length; i++) {
    System.out.print(even[i]);
}
```

The logic error: when I tested my code, instead of printing the even number, it showed the out of bounds error.

```java
int evenindex = 0;
int oddindex = 0;
for (int i =0; i<cons; i++) {
    if (EvenAndNum[i]%2==0) {
        even[evenindex] = EvenAndNum[i];
        evenindex ++;
    }
    else if (EvenAndNum[i]%2==1) {
        odd[oddindex] = EvenAndNum[i];
        oddindex ++;
    }
}
```

In the first image, I used i index for even, EvenAndNum, and odd, so that mean when everytime the i index increased, all 3 i indexes increased which is caused the difference between the array length and index. So I set the index for only even and only for odd, start with 0, only if the program found the even/odd number, that index will be increased by 1.