

Reflection Logs

Credit name: Chapter 9

Assignment Name: Mastery - EvenAndOdd

```
public static void main(String[] args) {  
    final int cons = 25;  
    int[] EvenAndNum = new int[cons];
```

Create the array for 25 numbers

```
int Even = 0;  
int Odd = 0;  
for (int i = 0; i < cons; i++) {  
    EvenAndNum[i] = (int) (100 * Math.random() + 0);  
}  
  
for (int i = 0; i < cons; i++) {  
    if (EvenAndNum[i] % 2 == 0) {  
        Even++;  
    }  
    else if (EvenAndNum[i] % 2 == 1) {  
        Odd++;  
    }  
}
```

Set the random 25 numbers from 0 to 99 and put in the EvenAndNum array. After that, use the for loop to count how many evens and odds have in the EvenAndNum array.

```
int[] even = new int[Even];  
int[] odd = new int[Odd];
```

Set the even and odd arrays with the length depend on the previous answer found in the counting process.

```
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++;  
    }  
}
```

Use the for loop to find the evens and odds from EvenAndNum array to arrange them into even and odd arrays.

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

Print out the final result.