

## Error Log Chapter 9

### **Exercise 1**

#### **Error 1:**

1:

No error message

2:

```
Even-----  
6 16 22 88 6 32 70 80 6 46 98 0 0 0 0 0 0 0 0 0 0 0 0  
  
Odd-----  
95 11 49 29 53 85 5 53 91 19 93 29 27 29 0 0 0 0 0 0 0 0
```

There are 0's when printing each number in the array

3:

Logic error

4:

```
int[] even = new int[25];  
int[] odd = new int[25];
```

5:

Made the array fit the amount of numbers so there are no extra 0's at the end

6:

```
int x = 0;  
int y = 0;  
  
for (int i = 0; i < numlist.length; i++) {  
    if (numlist[i] % 2 == 0) {  
        x++;  
    } else {  
        y++;  
    }  
}  
  
int[] even = new int[x];  
int[] odd = new int[y];
```

**Error 2:**

1:

No error message

2:

The code prints 26 numbers, not 0-25 numbers

3:

Logic error

4:

```
public static void main(String[] args) {  
    int[] numlist = new int[26];
```

5:

0-25 is the index of size 26 but 0-24 holds 25 numbers, so I switched it to 25

6:

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

**Exercise 8****Error 1:**

1:

```
Palindrome tester, enter your text: Evil is a name of a foeman as I live  
ERROR!  
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: Index 20 out of bounds for  
length 20  
at Main.main(Main.java:21)
```

2:

The longer palindromes didn't run

3:

Logic error

4:

```

System.out.print("Palindrome tester, enter your text: ");
String paltest = s.nextLine();

char[] array = new char[20];
char[] array2 = new char[20];

```

5:

Made the length of the array the size of the input instead of a set amount

6:

```

System.out.print("Palindrome tester, enter your text: ");
String paltest = s.nextLine();

char[] array = new char[paltest.length()];
char[] array2 = new char[paltest.length()];

```

## Error 2:

1:

```

Palindrome tester, enter your text: racecar
ERROR!
Exception in thread "main" java.lang.StringIndexOutOfBoundsException: Index 7 out of bounds for
length 7
    at java.base/jdk.internal.util.Preconditions$1.apply(Preconditions.java:55)
    at java.base/jdk.internal.util.Preconditions$1.apply(Preconditions.java:52)
    at java.base/jdk.internal.util.Preconditions$4.apply(Preconditions.java:213)
    at java.base/jdk.internal.util.Preconditions$4.apply(Preconditions.java:210)
    at java.base/jdk.internal.util.Preconditions.outOfBounds(Preconditions.java:98)
    at java.base/jdk.internal.util.Preconditions.outOfBoundsCheckIndex(Preconditions.java:106)
    at java.base/jdk.internal.util.Preconditions.checkIndex(Preconditions.java:302)
    at java.base/java.lang.String.checkIndex(String.java:4832)
    at java.base/java.lang.StringLatin1.charAt(StringLatin1.java:46)
    at java.base/java.lang.String.charAt(String.java:1555)
    at Main.main(Main.java:19)

```

2:

Index was out of bounds

3:

Logic error

4:

```

18     for (int i = paltest.length() - 1; i >= 0; i++) {
19         char l = paltest.charAt(i);
20         if (l != ' ') {
21             array[x] = paltest.charAt(i);
22             x+=1;
23         }
24     }

```

5:

Made i++ into i-- so it will go backwards from the end of the array and not at the end of the array go out of bounds

6:

```

18     for (int i = paltest.length() - 1; i >= 0; i--) {
19         char l = paltest.charAt(i);
20         if (l != ' ') {
21             array[x] = paltest.charAt(i);
22             x+=1;
23         }
24     }

```

### Error 3:

1:

No error message

2:

```

Palindrome tester, enter your text: racecar
Isn't a palindrome

```

Stated a palindrome as not a palindrome

3:

Incorrect function usage

4:

```
if (array == array2) {  
    System.out.println("Is a palindrome");  
} else {  
    System.out.println("Isn't a palindrome");  
}
```

5:

Made each index of the arrays compare to each other instead of directly comparing the arrays

6:

```
for (int i = 0; i < paltest.length(); i++) {  
    if (array[i] != (array2[i])) {  
        not++;  
    }  
    i++;  
}  
  
if (not == 0) {  
    System.out.println("Is a palindrome");  
} else {  
    System.out.println("Isn't a palindrome");  
}
```