

## Assignment 2: part 1

Carlos Lopez - nvu267 - Spring 2024

Enter expression: (

It's Not Balanced (0\_0)

Carlos Lopez - nvu267 - Spring 2024

Enter expression: ({})(

It's Not Balanced (0\_0)

Carlos Lopez - nvu267 - Spring 2024

Enter expression: 1+(0-8)\*{[8]6-1}

It's Balanced (^\_^)

Carlos Lopez - nvu267 - Spring 2024

Enter expression: ([)]

It's Not Balanced (0\_0)

Carlos Lopez - nvu267 - Spring 2024

Enter expression: 52

It's Balanced (^\_^)

## Assignment 2 Part 2

```
Carlos Lopez, nvu267 <Spring 2024>  
Enter the Infix Expression:  
5+8/2  
The Postfix expression:  
5 8 2 / +  
End of Program
```

```
Carlos Lopez, nvu267 <Spring 2024>  
Enter the Infix Expression:  
5/*+2  
The Postfix expression:  
5 / * 2 +  
End of Program
```

```
Carlos Lopez, nvu267 <Spring 2024>  
Enter the Infix Expression:  
8/2*6  
The Postfix expression:  
8 2 / 6 *  
End of Program
```

```
Carlos Lopez, nvu267 <Spring 2024>  
Enter the Infix Expression:  
52  
The Postfix expression:  
5 2  
End of Program
```

# Assignment 2: Part 3

```
Lopez, nvu267
Binary Search (Iterative Approach)
Enter 5 elements:

5
6
8
9
10

Enter key element to search:
6
Element found at index: 1
Total time taken by CPU (End Time - Start Time)/clock_per_second: 0.000013
```

```
Lopez, nvu267
Binary Search (Recursive Approach)
Enter 5 elements:

5
6
8
9
10

Enter key element to search:
6
Element found at index: 1
Total time taken by CPU (End Time - Start Time)/clock_per_second: 0.000017
```