

Question 1 Screenshot

```
Ian Rohan- usm404 - Spring 2024
Enter expression: {2(3+2){1(2+1)}}
It's Balanced (^_^)
```

Question 2 Screenshot

```
Ian Rohan, usm404 <Spring 2024>
Enter the Infix expression:
5/*+2
The Postfix expression: 5/*2+
End of program
```

Question 3 Screenshots

Iterative

```
Rohan, usm404
Binary Search (Iterative approach)
Enter 5 elements:
5
6
8
9
10
Enter key element to search:
5
Element found at index 0.
Total time taken by CPU: 0.002000
```

Recursive

```
Rohan, usm404
Binary Search (Recursive approach)
Enter 5 elements:
5
6
8
9
10
Enter key element to search:
8
Element found at index 2.
Total time taken by CPU: 0.005000
```