1. Stack Implementation

a. The program will prompt for the user to input an infix expression to be converted to a postfix expression

```
Y Run
Input an infix expression to convert to postfix (i.e. A + B * (D − E)
```

After inputting the expression, the program will automatically convert the expression and output it

```
Input an infix expression to convert to postfix (i.e. A + B * (D - E)

A+B*(D-E)
Stack is empty.
Infix Expression: A+B*(D-E)
Postfix Expression: ABDE-*+
```

2. Queue Implementation

a. The program will then display a menu of options for the user to choose from. The user can follow the prompts until they select 6 to end the program.

```
Pick an option: 1. Add to queue, 2. Remove front element from queue, 3. See the value at the fro nt of the queue, 4. Check if the queue is empty, 5. See the size of the queue, 6. Quit
```

1 - Adding a value

```
nt or the queue, 4. Check it the queue is empty, 5. See the size of the que
1
Enter the value you want to add to the queue (Any real integer)
156
```

2- Removing the front element

```
Pick an option: 1. Add to queue, 2. Remove front element from queue, 3. See the value at the front of the queue, 4. Check if the queue is empty, 5. See the size of the queue, 6. Quit
The value 156 was removed from the queue.
```

3 - Seeing the front value of the queue

I was unable to get this one completely functional? I'm not sure why. Is it possible to leave a comment where I have an error?

4- Seeing if the queue is empty

```
Pick an option: 1. Add to queue, 2. Remove front element from queue, 3. See the value at the front of the queue, 4. Check if the queue is empty, 5. See the size of the queue, 6. Quit 4. The queue is not empty.
```

5 - Displaying the size of the queue

Pick an option: 1. Add to queue, 2. Remove front element from queue, 3. See the value at the fro nt of the queue, 4. Check if the queue is empty, 5. See the size of the queue, 6. Quit 5
The size of the queue is: 1

(This was all done on the same run)