Data Structure: Assignment #6

1. Use a recursive method to reverse a Queue without using any other data-structure.
2. Use a recursive method to convert a number from decimal to binary.
3. Use a recursive method to reverse a string.
4. Find Big O notation for the following code:

a.
```
for( int i = 0; i < n ; i++)
    for( int j=0 ;j < n ; j++)

        _____
    }
}
```

b.
```
for( int i = 0; i < n ; i++)
    for( int j=i ;j < n ; j++)

        _____
    }
}
```

c.
```
for( int i = 0; i < n ; i++)
    for( int j=0 ;j < m ; j++)

        _____
    }
}
```

d.
```
for (int i = 1; i < n; i = i * 2){
    System.out.println("Hey - I'm busy looking at: " + i);
}
```

e.
```
for (int i = 1; i <= Math.pow(2, n); i++){
    System.out.println("Hey - I'm busy looking at: " + i);
}
```

f.
```
for( i=0 ; i<n ; i++)
{
   if ( i==1 )
       Break;
}
```