Insert function time = O(n)

```
// inserts new node at certain index. All nodes previously at the index or past the index get moved down the queue. void insert(int new_value, int new_index){
```

In the worst case scenario the function will iterate through the whole queue.

Remove function time = O(n)

```
// removes node at certain index
int remove(int new_index){
```

In the worst case scenario the function will iterate through the whole queue.

Sort function time = $O(n^2)$

```
// sorting function that implements the bubble sort algorithm
void sort(){
```

In the worst case scenario the function will iterate through the whole queue n times.

Search function time = $O(n^2)$

```
// searching function that implements the binary search algorithm
int search(int target){
```

In the worst case scenario the function will iterate through the whole queue n times.

