```
// @author Victor Cavalcante public class Queue<E>
```

/* Parameters */

```
// Indicates the index of the element at the front of the gueue
private int front;
// Indicates the index of the element at the rear of the queue
private int rear;
// Total size of the queue
int size;
// Array of elements (of type E)
E[] queue;
/* Auxiliary methods */
// Returns the number of elements in the queue
// @return int
int size();
// Returns true if the queue isempty, false otherwise
// @return boolean
boolean isEmpty();
/* Manipulation methods */
// Returns the first element of the queue
// @return element: E
// @throws QueueEmptyException;
E first() throws QueueEmptyException;
// Adds the element to the rear of the queue
// @param element: E
void enqueue(E e);
// Removes and returns the first element of the queue
// @return element: E
// @throws QueueEmptyException;
E dequeue() throws QueueEmptyException;
```