**TAD Queue**

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| Queue  Where is the last element added, is the first element added and will be the first element to leave.  **Graphic representation**  When the elements enter  When the elements come out |
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| **Primitive operations**   |  |  |  | | --- | --- | --- | | **Name** | **Input** | **Output** | | Queue | … | Queue | | IsEmpty | Queue | Boolean | | Enqueue | Queue x element | Queue | | Front | Queue | Element | | getLast | Queue | Element | | Dequeue | Queue | Element | | Size | Queue | Integer | | Search | Queue x element | Boolean | |

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| **Queue( ) : Modifier** |
| “Create a new empty queue” |
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| **Enqueue(T newItem) : Modifier** |
| “Add an item to the bottom of the list” |
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| **isEmpty( ) : Validation** |
| "Allows to check if the queue has elements or not". |
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| **Front( ) : Validation** |
| “This function is used to reference the first or the oldest element of the queue container.” |
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| **getLast( ) : Validation** |
| “Return the last item in the list without deleting it.” |
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| **Dequeue( ) : Modifier** |
| “Gets the value and removes the first item from the queue” |
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| **Size( ) : Validation** |
| "Returns the number of elements in the queue" |
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| **Search(T element) : Validation** |
| “Returns a truth value if the searched element is found, if found it returns true, if not it returns false.” |
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