|  |  |
| --- | --- |
| **TAD** | Queue |
| Abstract object | |
| Inv: | |
| Primitive operators   |  |  |  |  | | --- | --- | --- | --- | | Name | Input | Output | Operation type | | Constructor | N | Queue | Constructor | | enqueue | Queue x e | Queue | Modifier | | dequeue | Queue | element | Modifier | | Size | Queue | int | Analyzer | | isEmpty | Queue | Boolean | Analyzer | | |

|  |  |
| --- | --- |
| **TAD** | **HashTable** |
| Abstract object | |
| Inv: } | |
| Operadores Primitivos:   |  |  |  |  | | --- | --- | --- | --- | | Name | Input | Output | Operation Type | | Constructor |  | HashTable | Constructora | | insertOnHashTable | HashTable x element | HashTable | Modificadora | | searchOnHashTable | HashTable x key | value | Analizadora | | Delete | HashTable x key | HashTable | Modificadora | | |

|  |
| --- |
| TAD PriorityQueue |
| A = [a[0]… a[n-1]] |
| Invariants:   * PriorityQueue.size>=0 |
| Operations:   |  |  |  |  | | --- | --- | --- | --- | | Name | Input | Output | OperationType | | PriorityQueue |  |  | Constructor | | Insert | PriorityQueue x element | Queue | Modifier | | Maximum | PriorityQueue | element | Analyzer | | Extract-Max | PriorityQueue | element | Modifier | | isEmpty | PriorityQueue | boolean | Analyzer | | occupiedSize | PriorityQueue | int | Analyzer | | sortGrMin | PriorityQueue |  | Modifier | | sortMinGr | PriorityQueue |  | Modifier | |