## B.1.4 The Queue class

The abstract [Queue](#Queue) class represents a queue data structure for storing objects. This data structure uses a First In First Out semantics, meaning that the element added first will also be the element removed first. It is derived from the abstract class Collection.  
A new Instance can be created via the external function **createQueue**.

External function and class methods:

* createQueue  
  Factory function for creating a new Queue instance.
* add  
  Adds an element to the end of the Queue if this is possible.  
  Raises an exception in case of error, for example: running out of memory.
* remove  
  Removes and returns the first element of the Queue if it is not empty.  
  Raises an exception if the Queue is empty.
* size  
  Returns the number of elements stored in the Queue.