





Doubly-linked list

size()

isEmpy()

Time java.util.Deque (java.util.ArrayDeque / java.util.LinkedList)

throws exceptions

getFirst()

getLast()

addFirst()

addLast()

removeFirst()

removeLast()

Space O(n) where n is number of elements

peekFirst()

peekLast()

offerFirst()

offerLast()

pollFirst()

pollLast()

returns special value

Array implementation Circular array (as in queue)

Deque ADT

size()

first()

last()

isEmpty()

addFirst()

addLast()

removeFirst() O(1)

removeLast() O(1)

Space O(C) where C is array capacity

0(1)

0(1)

0(1)

O(1)

0(1)

0(1)