9. Linked Lists :: Implementation :: DList Class :: remove()

The *remove*() method:

`+remove(pIndex: int): Integer <<throws IndexOutOfBoundsException>>`

removes the element at index *pIndex* from the list or throws an *IndexOutOfBoundsException* if *pIndex* is less than 0 or greater than or equal to the size of the *DList*. To understand the operations that we must perform to remove an element, let's consider several cases.

1. Removing the element at index 0 in a list with one element.

2. Removing the element at index 0 (the head element) in a list with two or more elements.

9. Linked Lists :: Implementation :: DList Class :: remove()

3. Removing the element at index *getSize*() - 1 (the tail element) in a list with two or more elements (removing the tail element in a list with one element is equivalent to removing the head element in a list with one element which was discussed in Case 1).

4. Removing the element at $0 < pIndex <$ *getSize*() - 1 in a list with three or more elements.