🏠 Curso / GTx CS1332x Course I Wrap-up / Practice Exam

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Deque Diagramming
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Deque Diagramming

0 puntos posibles (no calificables)

The following Deque is backed with a Doubly-Linked List. This deque has a head pointer and a tail pointer. AddFirst() and removeFirst() calls on the deque operate on the *head* of the Linked List. Likewise, addLast() and removeLast() operate on the *tail* of the Linked List. Perform the following **addFirst()**, **addLast()**, **removeFirst()**, and **removeLast()** operations in order starting from the initial deque. At each step, enter the state of the deque after the element is added/removed. You are provided with a scratchpad at the bottom of this page that you may use.

Elements in the deque are represented by dash-seperated values. For example, to build the initial deque (see below) starting from an empty deque, the following operations are called in order:

```
addLast(NYM);
addLast(NYY);
addLast(BOS);
```

Initial Deque: NYM-NYY-BOS

```
addLast(FQR);
```

| NYM-NYY-BOS-FQR |

✔ Answer: NYM-NYY-BOS-FQR

```
addFirst(EWQ);
```

| EWQ-NYM-NYY-BOS-FQR |

✔ Answer: EWQ-NYM-NYY-BOS-FQR

```
addFirst(NGH);
```

| NGH-EWQ-NYM-NYY-BOS-F |

✔ Answer: NGH-EWQ-NYM-NYY-BOS-FQR

```
removeLast();
```

| NGH-EWQ-NYM-NYY-BOS |

✔ Answer: NGH-EWQ-NYM-NYY-BOS

```
removeFirst();
```

| EWQ-NYM-NYY-BOS |

✔ Answer: EWQ-NYM-NYY-BOS

```
addLast(POL);
```

| EWQ-NYM-NYY-BOS-POL |

✔ Answer: EWQ-NYM-NYY-BOS-POL

```
removeFirst();
```

| NYM-NYY-BOS-POL |

✔ Answer: NYM-NYY-BOS-POL

```
removeLast();
```

NYM-NYY-BOS

✔ Answer: NYM-NYY-BOS

Enviar

ℹ Las respuestas son mostradas en el problema

Scratchpad

Below is a textbox you can use as a scratchpad while you work through this problem; you should be able to click in the bottom-right and drag to expand it for your use. No text in this box will be used by the grading script, but you can use it to take notes and work through the exercise. Note that text entered in this box **will not be saved** if you leave and return to this page.

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