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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

NYM-NYY-BOS-FQR 

✓ Answer: NYM-NYY-BOS-FQR

addFirst(EWQ);

addLast(FQR);

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);

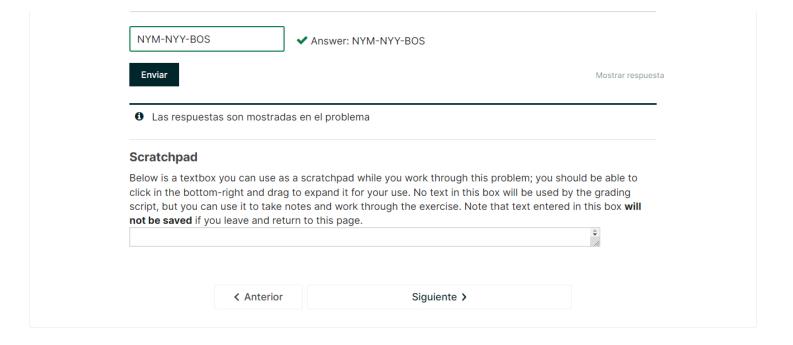
EWQ-NYM-NYY-BOS-POL 

✓ Answer: EWQ-NYM-NYY-BOS-POL

removeFirst();

NYM-NYY-BOS-POL ✓ Answer: NYM-NYY-BOS-POL

removeLast();



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