Individual reflection 04

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At first I was really struggle of figuring out what the card linked list was like. Because what we learnt in the class was a node with 3 parts: previous, next, and information. This card linked list seems like cannot get the references of previous or next elements, so we must use iterator instead of node.previous or node.next to get the next or previous card. I wonder if we can redefine this part in extra credit file.

Also this homework really helps me understand the function of iterator and clarifies some points. Like when we use while loop “while (iterator.previous!=mark)”, we are actually going one card forward, and if we still want to manipulate the same card, we need first use iterator.next() to come back to the starting point. What’s more, new listIterator(size()) will give you the last point of the whole linked list instead of the point before the last card.

I am still a little bit confused about the null condition. Actually I’m not sure when we should discuss the null situation and when we don’t need to. Like “while (iterator.hasPrevious()&&iterator.previous()!=mark)”, do we still need to discuss the null? Because I thought iterator.hasPrevious() has already excluded the condition that the pile is null. But I’m not sure under which circumstance we are required to discuss null exception.