Quiz 6 (Oct 25)

By taking this quiz, you agree to adhere to the honor code of the class.			
Name:	netid:		

Write your name and netid on both sides of the paper	. Write your solution first on this side.
If space is not enough, write to the other side. You car	n ask for extra paper if necessary.

Name:	netid:
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Imagine | built a public class wackyList extends

DoublyLinkedList<Integer> and I implement wackyList.equals so that two wackyList s are equal if all the entries on the even indices add up to the same number and all the entries in the odd indices are identical. For example, [0, 1, 4, 7] and [2, 1, 2, 7] are equal because the sums of the entries of the even indices is the same (0 + 4 = 0 = 2 + 2) and the entries at the odd indices coincide (1 = 1, 7 = 7). Implement a good int hashCode() for wackyList. For convenience, you may use getAtIndex and assume wackyList always has an even size. Hint: 521 is prime.

Reference solution

```
public class WackList<Integer>{
   public int hashCode() {
      // Assuming there are even number of elements.
      int evenSum = 0, hash=0, multiplier=1;
      for (int i=0; i<size(); i++) {
        if (i%2 == 0) {
            evenSum += getAtIndex(i);
        } else {
            hash += multiplier * getAtIndex(i);
            multiplier *= 512;
        }
    }
   return multiplier * evenSum + hash;
}</pre>
```