A programmer discovers that they frequently need only the odd numbers in an `ArrayList` of Integers. As a result, they decided to write a private class `OddIterator` that implements the Iterator interface. Please help them implement the constructor and the `hasNext()` and `next()` methods so that they can retrieve the odd values, one at a time. For example, if the `ArrayList` contains the elements `[7, 4, 1, 3, 0]`, the iterator should return the values `7`, `1`, and then `3`. *One of* `hasNext()` *and* `next()` *should be O(1).*

```
public class ArrayList<E> implements List<E>, Iterable<E>{
   private E[] data;
   private int size;

   …

   public Iterator<E> iterator(){
      return new OddIterator();
   }

   private class OddIterator implements Iterator<Integer> {
      //any other instance variables you might need



      public OddIterator(){



      }

       // space for helper methods if desired









      public boolean hasNext(){









      }

      public E next(){









      }
   }
```