

1. Download and run IteratorPattern.java from Blackboard Week 3.
2. Your first task is to create a second iterator that traverses only **odd** numbered elements. Also, **createIterator** method will accept a type argument so that, user can choose between the regular iterator and odd numbered iterator. (See Week 3 slide #8 for an illustration.)
3. Your second task is to customize your iterators so, they will start from an arbitrary position. It is like Java's **listIterator (int index)**, where index is the starting position you want for iterator to begin in the list.

**Hint:** **createIterator** will accept a second parameter for index.

4. Moreover, you have some error cases that you need to give your attention:
  - In the first task, if one enters an even number for odd numbered iterator, you will raise an exception. Don't forget that "0" is even too.
  - In the second task, if one enters an index that is smaller than 0 or greater than the number of your elements, you should throw an **ArrayIndexOutOfBoundsException** exception.