ECAP615

Programming in Java

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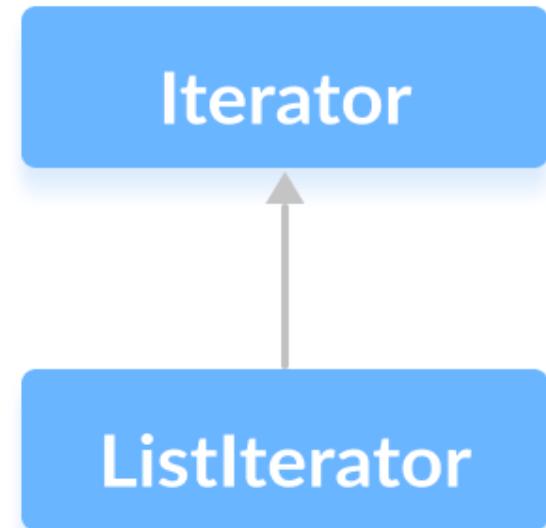
Learning Outcomes

After this lecture, you will be able to

- learn the basic concept of listiterator,

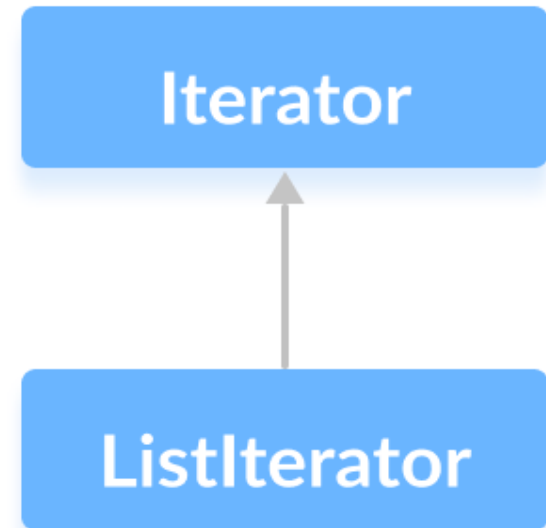- understand the different methods of listiterator.

ListIterator

The ListIterator interface
of the Java collections
framework provides the
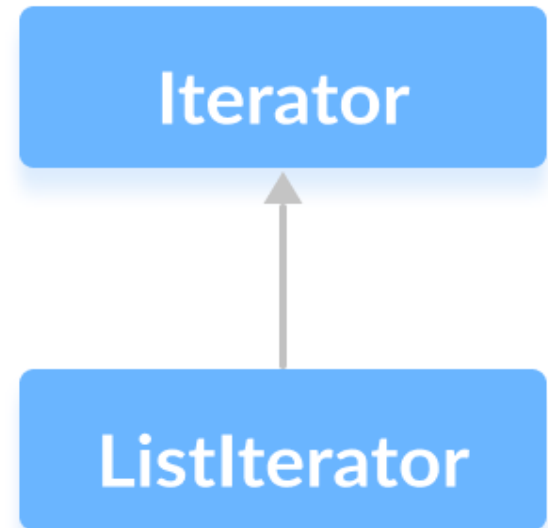functionality to access
elements of a list.

ListIterator

It is bidirectional. This means it allows us to iterate elements of a list in both the direction.

ListIterator

It extends the Iterator interface.

Features of ListIterator

- It is useful for list implemented classes.

- Available since java 1.2.

- It supports bi-directional traversal. i.e both forward and backward direction.

- It supports all the four CRUD operations

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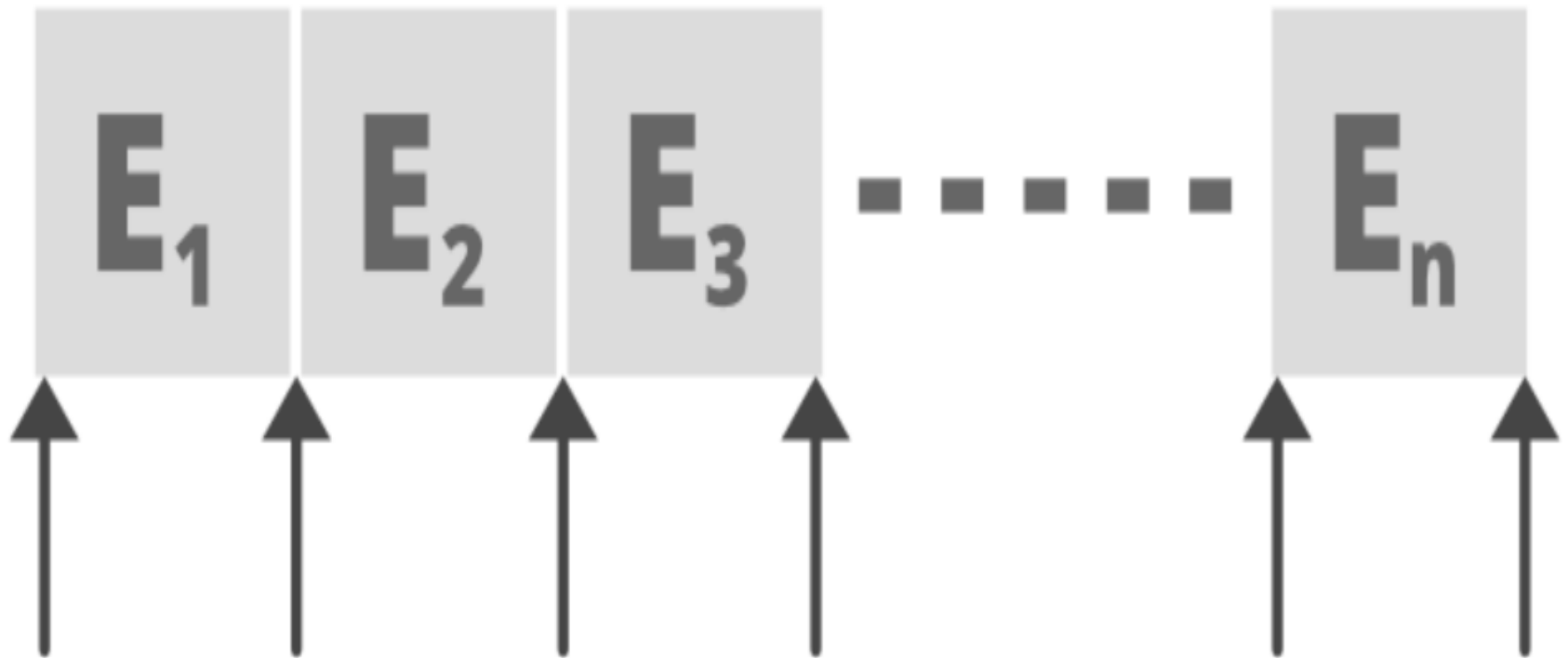# Features of ListIterator

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- **It supports all the four CRUD operations**

Position of Cursor

E_1 E_2 E_3 - - - - - - E_n

Declaration of ListIterator

public interface ListIterator<E> extends Iterator<E>

Syntax to get a list Iterator on a list:

ListIterator<E> listIterator()

Methods of ListIterator

ListIterator is a bi-directional iterator. For this functionality, it has two kinds of methods:

Methods of ListIterator

1. Forward direction iteration

hasNext()

next()

nextIndex()

Methods of ListIterator

1. Forward direction iteration

hasNext()

next()

nextIndex()

Methods of ListIterator

1. Forward direction iteration

hasNext()

next()

nextIndex()

Methods of ListIterator

2. Backward direction iteration

hasPrevious()

previous()

previousIndex()

Methods of ListIterator

2. Backward direction iteration

hasPrevious()

previous()

previousIndex()

Methods of ListIterator

2. Backward direction iteration

hasPrevious()

previous()

previousIndex()

Array List Iterator methods

A. listIterator()

B. listIterator(int index)

Array List Iterator methods

A. listIterator()

B. listIterator(int index)

That's all for now…