

Iteration interface

Monday, September 12, 2022 2:08 PM

The code needed to make Stack, Queue, and Bag all iterable

Step one: Import the iterator library in the class.

```
import java.util.Iterator;
```

This code allows us to refer to Java's Iterator interface.

Step two: Add iterable interface to the class declaration.

```
implements Iterable<Item>
```

This code is a promise to provide an iterator() method. This method simply returns an object from a class that implements the Iterator interface

```
public Iterator<Item> iterator()  
{ return new ListIterator(); }
```

This `iterator()` is a promise to implement a class call `ListIterator` that implements the `hasNext()`, `next()`, and `remove()` methods that are called when a client uses the `foreach` construct.