

Iterator Pattern

(Kent Podiololis)가 C

“ 가 1980 가 ? ” —

: Iterator

: java.util.Iterator

: for-each
(traverse)

: ?

: , next()
, hasNext() 가 true

: (linked list)가 ?

: (Singly linked list) 가 ?

:

: 가 null

: , (iterator) 가 ?

: ...

-

```
Iterator i;
while (i.hasNext()) {
    i.next();
}
```

-

```
Node next = root;
while (next != null) {
    next = next.next;
}
```

: ... 가 ?

: seq

```
(seq [1 2 3])      => (1 2 3)
(seq (list 4 5 6)) => (4 5 6)
(seq #{7 8 9})    => (7 8 9)
(seq (int-array 3)) => (0 0 0)
(seq "abc")       => (\a \b \c)
```

: ...
 : .
 : seq ?
 : clojure.lang.Seqable 가 .

```
(deftype RedGreenBlackTree [& elems]
  clojure.lang.Seqable
  (seq [self]
    ;; traverse element in needed order
    ))
```

: 가 가 getNext()
 ?
 : 가 “ ” .

```
(def natural-numbers (iterate inc 1))
```

:
 OutOfMemory가 .
 : ?
 : , 가 (lazy).
 : !

- Clojure Design Patterns

From:

<http://jace.link/> - **Various Ways**

Permanent link:

<http://jace.link/open/iterator-pattern>

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