

JAVA.UTIL.ARRAYDEQUE.DECENDINGITERATOR METHOD

http://www.tutorialspoint.com/java/util/arraydeque_descendingiterator.htm

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Description

The **java.util.ArrayDeque.descendingIterator** method returns an **iterator** over the elements in this **deque** in reverse sequential order.

Declaration

Following is the declaration for **java.util.ArrayDeque.descendingIterator** method

```
public Iterator<E> descendingIterator()
```

Parameters

- NA

Return Value

This method returns an iterator over the elements in this deque in **reverse** sequence.

Exception

- NA

Example

The following example shows the usage of java.util.ArrayDeque.descendingIterator method.

```
package com.tutorialspoint;

import java.util.ArrayDeque;
import java.util.Deque;
import java.util.Iterator;

public class ArrayDequeDemo {
    public static void main(String[] args) {

        // create an empty array deque with an initial capacity
        Deque<Integer> deque = new ArrayDeque<Integer>(8);

        // use add() method to add elements in the deque
        deque.add(15);
        deque.add(22);
        deque.add(25);
        deque.add(20);

        //iterator() is used to print all the elements
        //next() returns the next element on each iteration
        System.out.println("printing elements using iterator:");

        for(Iterator itr = deque.iterator();itr.hasNext();) {
            System.out.println(itr.next());
        }

        //descendingIterator() is used to print the elements in reverse order
        //next() returns the next element on each iteration
        System.out.println("printing elements in reverse order:");

        for(Iterator descItr = deque.descendingIterator();descItr.hasNext();) {
            System.out.println(descItr.next());
        }
    }
}
```

```
}
```

Let us compile and run the above program, this will produce the following result:

```
printing elements using iterator:
15
22
25
20
printing elements in reverse order:
20
25
22
15
```

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