

JAVA.UTIL.ARRAYDEQUE.REMOVE METHOD

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

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Description

The **java.util.ArrayDeque.remove** method retrieves and removes the **head** of the queue represented by this **deque**.

Declaration

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

```
public E remove()
```

Parameters

- NA

Return Value

This method returns the **head** of the queue represented by this deque.

Exception

- **NoSuchElementException** -- if this deque is **empty**.

Example

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

```
package com.tutorialspoint;

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

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(25);
        deque.add(30);
        deque.add(20);
        deque.add(40);

        // this will remove element at the first(head) position
        int retval = deque.remove();
        System.out.println("Element removed is: " + retval);

        // let us print all the elements available in deque
        for (Integer number : deque) {
            System.out.println("Number = " + number);
        }
    }
}
```

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

```
Number = 25
Number = 30
Number = 20
```

```
Number = 40  
Element removed is: 25  
Number = 30  
Number = 20  
Number = 40
```

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