Hash Tables

Write an instance method for the provided HashTable314 class which will determine whether a given element is present in the table. This hash table implementation uses linked list buckets to handle hash collisions. These linked lists are not kept in sorted order. Elements in the hash table are placed in the bucket corresponding to their hash code modulo the length of the array.

This problem is about Hash Tables which use buckets for collisions. If you would like practice with a Hash Table which uses linear probing, revisit the extra section problem from Nov. 25

```java
/* Pre: val != null
   * Post: returns true iff val is contained in the hash table.
   * The hash table is unchanged as a result of this operation.
   */
public boolean contains(E val);
```

You may use the following HashTable314 implementation.

```java
public class HashTable314<E> {
    private static final int INITIAL_CAPACITY = 10;

    private BucketNode<E>[] con;
    private int size;

    private static class BucketNode<E> {
        private E data;
        private BucketNode<E> next;
    }
}
```

You may not use or assume any other methods exist in the HashTable314 class. Do not use any other Java classes or methods.
/* Pre: val != null
* Post: returns true iff val is contained in the hash table.
*       The hash table is unchanged as a result of this operation.
*/

class HashTable {
    public boolean contains(E val) {
        // Implementation details...
    }
}