Let 'ADT Bag' be a finite collection of objects in no particular order. It can contain duplicate items.

Given the 'BagInterface' and UML diagram, implement the missing methods in 'LinkedBag' class by 'linking the data'.

```
T remove()
boolean remove(T anEntry)
void clear()
int getFrequencyOf(T anEntry)
boolean contains(T anEntry)
```

Then test it using 'LinkedBagDemo' class. Implement additional methods to test all functions in 'LinkedBag' class.

Bag
+getCurrentSize(): integer +isEmpty(): boolean +add(newEntry: T): boolean +remove(): T +remove(anEntry: T): boolean +clear(): void +getFrequencyOf(anEntry: T): integer +contains(anEntry: T): boolean +toArray(): T[]