

## ExtractLine

```
ExtractLine test case: 0  
Basically:1->[0]  
I:1->[0]  
scanning:1->[0]
```

```
ExtractLine test case: 1  
a:1->[1]  
Basically:1->[0]  
file:1->[1]  
from:1->[1]  
fscanf:1->[1]  
I:1->[0]  
in:1->[1]  
scanning:1->[0]  
strings:1->[1]  
the:1->[1]  
using:1->[1]
```

```
ExtractLine test case: 2  
a:1->[1]  
Basically:1->[0]  
calling:1->[2]  
each:1->[2]  
file:1->[1]  
for:1->[2]  
from:1->[1]  
fscanf:1->[1]  
function:1->[2]  
I:1->[0]  
in:1->[1]  
my:1->[2]  
scanning:1->[0]  
string:1->[2]  
strings:1->[1]  
the:1->[1]  
then:1->[2]  
using:1->[1]
```

```

String fileName1="files/testfile1";
    String fileName2="files/testfile2";
    WordProcessor wp = new WordProcessor();

    //MyLinkedList allWords = wp.extractAll(fileName1);

    //Test ExtractLine
    MyLinkedList allWords = new MyLinkedList();
    ArrayList<String> x = wp.fileRead(fileName1);
    String[] str = new String[x.size()];

    for(int i = 0; i < 3; i++) {
        str[i] = x.get(i);
        MyLinkedList testExtractLine =
wp.extractLine(str[i], i, allWords);

```

### **Alphabetical and Occurrence Sorting**

```

//allWords.MergeSortAlpha();
    //allWords.MergeSortOcc();
    //System.out.println("mergeSortOcc Test Case:
" + i + "\n" + allWords);

    System.out.println("mergeSortOcc test Case: 4");
    MyLinkedList extractAll = wp.extractAll(fileName1);
    System.out.println(extractAll);

```

```
mergeSortOcc Test Case: 0  
I:1->[0]  
Basically:1->[0]  
scanning:1->[0]
```

```
mergeSortOcc Test Case: 1  
Basically:1->[0]  
I:1->[0]  
fscanf:1->[1]  
from:1->[1]  
file:1->[1]  
a:1->[1]  
using:1->[1]  
the:1->[1]  
strings:1->[1]  
scanning:1->[0]  
in:1->[1]
```

```
mergeSortOcc Test Case: 2  
for:1->[2]  
each:1->[2]  
calling:1->[2]  
Basically:1->[0]  
in:1->[1]  
scanning:1->[0]  
strings:1->[1]  
the:1->[1]  
using:1->[1]  
then:1->[2]  
string:1->[2]  
my:1->[2]  
a:1->[1]  
file:1->[1]  
from:1->[1]  
fscanf:1->[1]  
I:1->[0]  
function:1->[2]
```

```
mergeSortOcc test Case: 4  
a:2->[1, 3]  
Basically:1->[0]  
calling:1->[2]  
each:1->[2]  
file:3->[1, 3, 4]  
for:1->[2]  
from:2->[1, 3]  
fscanf:1->[1]  
function:1->[2]  
I:1->[0]  
in:1->[1]  
my:1->[2]  
scanning:1->[0]  
string:1->[2]  
strings:1->[1]  
the:1->[1]  
then:1->[2]  
using:1->[1]
```

mergeSortAlpha Test Case: 0

Basically:1->[0]

I:1->[0]

scanning:1->[0]

mergeSortAlpha Test Case: 1

a:1->[1]

Basically:1->[0]

file:1->[1]

from:1->[1]

fscanf:1->[1]

I:1->[0]

in:1->[1]

scanning:1->[0]

strings:1->[1]

the:1->[1]

using:1->[1]

mergeSortAlpha Test Case: 2

a:1->[1]

Basically:1->[0]

calling:1->[2]

each:1->[2]

file:1->[1]

for:1->[2]

from:1->[1]

fscanf:1->[1]

function:1->[2]

I:1->[0]

in:1->[1]

my:1->[2]

scanning:1->[0]

string:1->[2]

strings:1->[1]

the:1->[1]

then:1->[2]

using:1->[1]

}

### ContainWord

```
System.out.println("Test containWord: " + allWords);  
    System.out.println("1. Basically " +  
allWords.containWord("Basically", 0));  
    System.out.println("2. scanning " +  
allWords.containWord("scanning", 0)); System.out.println("3.  
I " + allWords.containWord("I", 0));
```

```
Test containWord: a:1->[1]  
Basically:1->[0]  
calling:1->[2]  
each:1->[2]  
file:1->[1]  
for:1->[2]  
from:1->[1]  
fscanf:1->[1]  
function:1->[2]  
I:1->[0]  
in:1->[1]  
my:1->[2]  
scanning:1->[0]  
string:1->[2]  
strings:1->[1]  
the:1->[1]  
then:1->[2]  
using:1->[1]
```

```
1. Basically true  
2. scanning true  
3. I true
```

### RemoveFirst

```
System.out.println("Test removeFirst: \n" + allWords);
    allWords.removeFirst();
    System.out.println("Test removeFirst: \n" +
allWords);
    allWords.removeFirst();
    System.out.println("Test removeFirst: \n" +
allWords);
allWords.removeFirst();System.out.println("Test removeFirst:
\n" + allWords);
```

Test removeFirst:

a:1->[1]  
Basically:1->[0]  
calling:1->[2]  
each:1->[2]  
file:1->[1]  
for:1->[2]  
from:1->[1]  
fscanf:1->[1]  
function:1->[2]  
I:1->[0]  
in:1->[1]  
my:1->[2]  
scanning:1->[0]  
string:1->[2]  
strings:1->[1]  
the:1->[1]  
then:1->[2]  
using:1->[1]

Test removeFirst:

Basically:1->[0]  
calling:1->[2]  
each:1->[2]  
file:1->[1]  
for:1->[2]  
from:1->[1]  
fscanf:1->[1]  
function:1->[2]  
I:1->[0]  
in:1->[1]  
my:1->[2]  
scanning:1->[0]  
string:1->[2]  
strings:1->[1]  
the:1->[1]  
then:1->[2]  
using:1->[1]

Test removeFirst:

calling:1->[2]  
each:1->[2]  
file:1->[1]  
for:1->[2]  
from:1->[1]  
fscanf:1->[1]  
function:1->[2]  
I:1->[0]  
in:1->[1]  
my:1->[2]  
scanning:1->[0]  
string:1->[2]  
strings:1->[1]  
the:1->[1]  
then:1->[2]  
using:1->[1]

Test removeFirst:

each:1->[2]  
file:1->[1]  
for:1->[2]  
from:1->[1]  
fscanf:1->[1]  
function:1->[2]  
I:1->[0]  
in:1->[1]  
my:1->[2]  
scanning:1->[0]  
string:1->[2]  
strings:1->[1]  
the:1->[1]  
then:1->[2]  
using:1->[1]

## AddFirst

```
System.out.println("Test addFirst: \n" + allWords);
    allWords.addFirst("TestCase1");
    allWords.addFirst("TestCase2");
allWords.addFirst("TestCase3");
System.out.println(allWords);
```

```
Test addFirst:
a:1->[1]
Basically:1->[0]
calling:1->[2]
each:1->[2]
file:1->[1]
for:1->[2]
from:1->[1]
fscanf:1->[1]
function:1->[2]
I:1->[0]
in:1->[1]
my:1->[2]
scanning:1->[0]
string:1->[2]
strings:1->[1]
the:1->[1]
then:1->[2]
using:1->[1]

TestCase3
TestCase2
TestCase1
a:1->[1]
Basically:1->[0]
calling:1->[2]
each:1->[2]
file:1->[1]
for:1->[2]
from:1->[1]
fscanf:1->[1]
function:1->[2]
I:1->[0]
in:1->[1]
my:1->[2]
scanning:1->[0]
string:1->[2]
strings:1->[1]
the:1->[1]
then:1->[2]
using:1->[1]
```



### Queue, enqueue, dequeue

```
// used for mergesort
Queue q = new Queue();
    MyLinkedList queueTestCase1 = new MyLinkedList();
    MyLinkedList queueTestCase2 = new MyLinkedList();
    MyLinkedList queueTestCase3 = new MyLinkedList();

    System.out.println("test enqueue");
    q.enqueue(queueTestCase1);
    q.enqueue(queueTestCase2);
    q.enqueue(queueTestCase3);

    System.out.println("test dequeue");
    q.dequeue();
    q.dequeue();
    q.dequeue();
```

### compareTo

```
WordItem testWord1 = new WordItem("testCase1", 0, 9999);
    WordItem testWord2 = new WordItem("testCase2", 0,
9999);
    WordItem testWord3 = new WordItem("testCase3", 0,
9999);

    System.out.println("testCase1 " + testWord1);
    System.out.println("testCase2 " + testWord2);
    System.out.println("testCase3 " + testWord3 +
"\n");

    System.out.println("Compare testWord1 to testWord2:
" + testWord1.compareTo(testWord2));
    System.out.println("Compare testWord2 to testWord1:
" + testWord2.compareTo(testWord1));
    System.out.println("Compare testWord3 to testWord3:
" + testWord3.compareTo(testWord3));

    System.out.println("testCase1 " + testWord1);
    System.out.println("testCase2 " + testWord2);
    System.out.println("testCase3 " + testWord3 +
"\n");
```

```
testCase1 testCase1:0->[9999]
testCase2 testCase2:0->[9999]
testCase3 testCase3:0->[9999]

Compare testWord1 to testWord2: -1
Compare testWord2 to testWord1: 1
Compare testWord3 to testWord3: 0
```

### updateItem

```
System.out.println("test updateItem");
    testWord1.updateItem(0);
    System.out.println("testCase1 " + testWord1);
    testWord2.updateItem(10);
    System.out.println("testCase2 " + testWord2);
    testWord3.updateItem(100);
    System.out.println("testCase1 " + testWord3);

    System.out.println("testCase1 " + testWord1);
    System.out.println("testCase2 " + testWord2);
    System.out.println("testCase3 " + testWord3 +
"\n");
```

```
testCase1 testCase1:0->[9999]
testCase2 testCase2:0->[9999]
testCase3 testCase3:0->[9999]

test updateItem
testCase1 testCase1:1->[9999, 0]
testCase2 testCase2:1->[9999, 10]
testCase1 testCase3:1->[9999, 100]
```

### equals

```
System.out.println("Test equals on testWord1 and testWord2:  
" + testWord1.equals(testWord2));
```

```
    System.out.println("Test equals on testWord2 and  
testWord1: " + testWord2.equals(testWord1));
```

```
    System.out.println("Test equals on testWord3 and  
testWord3: " + testWord3.equals(testWord3));
```

```
testCase1 testCase1:0->[9999]
```

```
testCase2 testCase2:0->[9999]
```

```
testCase3 testCase3:0->[9999]
```

```
Test equals on testWord1 and testWord2: false
```

```
Test equals on testWord2 and testWord1: false
```

```
Test equals on testWord3 and testWord3: true
```