Lab Goal: The lab was designed to teach you more about hash tables.

Lab Description: Write a hash table. A hash table can be implemented using an array of linked lists. Use an array of Java LinkedLists.

Read in Strings and use them to construct Word objects. Word objects will be organized in the hash table in the appropriate bucket using the hashCode value of each Word.

```
HASH FORMULA: (# of vowels * # of letters) % 10

If the word is BOOT then, BOOT has a hash of (2*4) %10 == 8.
```

This hash table does not store duplicate values.

Sample Data:

one two dog cat chicken pig owl jump run hop shortcut ferret goat. hootowl owl go alligator onimonapia food

Files Needed ::

```
Word.java
WordTester.java
```

HashTable.java - written as part of TableOInts
HashTableRunner.java
words.dat

Sample Output:

```
HASHTABLE
bucket 0 onimonapia
bucket 1 hootowl a
bucket 2 ferret go
bucket 3 two dog cat pig owl run hop
bucket 4 chicken jump
bucket 5
bucket 6 one shortcut alligator
bucket 7
bucket 8 goat food
bucket 9
```