Saving and Retrieving availableList

```
We now create two methods: One to save the availableList and one to retrieve it
In Globals we include
     the constant AVAILABLE LIST FILE = " available.dat"
The file will be opened, I/O will happen, then it will be closed immediately. Thus, we do
not need a global variable. A local variable within each method will be fine.
In the class FileIO we include the methods
     public static int saveAvailableList(String fileName) {
          open a random access file f, with fileName, "rw", and truncate to 0
          for every node of availableList from head to tail {
               write the record number as an integer (use writeInt())
          close f
          if process successful return Globals.PROCESS OK
          else return Globals.PROCESS ERROR
     public static int retrieveAvailableList(String fileName) {
          open a random access file f, with fileName, "rw"
          nodes = calculate the total integers stored in f
               (use f.length() and INT LEN for this calculation)
          instantiate a new availableList
          for (i = 0; i < nodes; i++) {
               read the next integer from f (use readInt())
               add to availableList (use addRecord() from AvailableList class)
```

```
close f

if process successful return Globals.PROCESS_OK
    else return Globals.PROCESS_ERROR
}

Testing

main() {
    instantiate availableList to an empty list
    add about 8 nodes to the list with availableList.addRecord()
        (use random integers as record numbers)

call saveAvailableList()
    set availableList to null
    call retrieveAvailableList()
    print availableList
}

repeat testing a few times with more record numbers
```