AN EXCEPTIONAL BAG

Throwing Exceptions

CSC211 LAB 14

Lab 14 Background

This purpose of this lab is to give you experience using exceptions in Java.

- Download the starter code form the course web site.
- Create and test the project in NetBeans before modifying it. Notice what happens when you try to add to a full bag or remove from an empty bag.
- Create the BagOfStringsException class as shown later in these instructions.
- Change the signature of the add and remove methods as described below.
- Make the corresponding changes in the BagOfStrings class.
- In the BagTestDriver class, change the code so that whenever an add or remove are called, the calls are inside a try/catch block.
- Gracefully handle any exceptions in the catch-blocks.
- Run the program and notice the different results.

The BagOfStringsException Class

Create the BagOfStringsException class as shown below:

```
import java.io.IOException;
public class BagOfStringsException extends RuntimeException
{
   public BagOfStringsException()
   {
      super("Illegal operation on BagOfStrings.");
   } // end default constructor

   public BagOfStringsException(String message)
   {
      super(message);
   } // end constructor
} // end BagOfStringException
```

New Signatures for add and remove Methods

```
public void add(String newString) throws BagOfStringsException;
public void remove(String aString) throws BagOfStringsException;
```