

PROJECT: 1 (100 points)
DUE DATE: 9/26/2022

Description:

1. Implement the interface *BagInterface* and the class *ArrayBag*
2. Implement the class *JavaKeywords* that uses the interface and class in part 1:
 - a. Reads the Java keywords from the file on the intranet /user/tvnguyen7/data/javakeywords.txt and stores the keywords in a bag.
 - b. Checks all the command line parameters and outputs if they are Java keywords using the information stored in the bag.
 - c. Show the testing of all the interfaces that are not used in part 2.b.
 - d. **NO** input to program in part 2.c. Hardcode your tests.
3. **No package.**

Required I/O:

For example, the command:

java JavaKeywords while total if
will produce the following output:

```
Java Keywords by F. Last  
  
# Java keywords loaded.  
  
while is a keyword  
total is not a keyword  
if is a keyword  
  
your testing output here...
```

F. Last is your first initial and last name. # is a value that is the number of keywords read.

Turn in:

1. There will be 3 Java source files: BagInterface.java, ArrayBag.java, and JavaKeywords.java
2. Compress these files into a zip file and submit it to my intranet dropbox with the name:

bronconame-p.zip where *bronconame* is the part before your @cpp.edu email address, in lowercase.

```
zip p1 BagInterface.java ArrayBag.java JavaKeywords.java  
scp p1.zip bronconame@login.cpp.edu:/user/tvnguyen7/cs2400-002/bronconame-p1.zip
```

3. This is how I will grade your project:

```
unzip bronconame-p1  
javac JavaKeywords.java  
java JavaKeywords while total
```

Grading Guide:

- 80%: Program correctness
- 20%: Coding – efficiency, style, comments, formats, *report*

Notes:

The following information is required in the beginning of every source file.

```
//  
// Name:      Last, First  
// Homework: #  
// Due:       date  
// Course:    cs-2400-02-f22  
//  
// Description:  
//           A brief description of the project.  
//
```

Hints:

- To copy the data file to your computer, use the command:

```
scp bronconame@login.cpp.edu:/user/tvnguyen7/data/javakeywords.txt .
```