OOP - Java Packages Exercise

1. Exercise on Java packages

```
Suppose you have three classes:
import java.util.ArrayList;
public class MytestClass {
       public static void main(String[] args){
              ArrayList<Integer> aL= new ArrayList<Integer>();
              aL.add(new Integer(20));
              aL.add(new Integer(23));
              aL.add(new Integer(27));
              MyPrintUtils.printList(aL);
              dbUtils.printDB();
}
public class dbUtils {
       public static void printDB(){
              System.out.println("Printing DB Info");
}
import java.util.List;
public class MyPrintUtils<E> {
       public static<E> void printList(List<E> a){
              for(E e:a){
                      System.out.println(e);
       }
}
```

You need to put MytestClass in a package *edu.newpaltz.cs.oop*, dbUtils in a package *edu.newpaltz.cs.databases*, MyPrintUtils in the package *edu.newpaltz.cs.utils*.

Explain where you will move each source file, and what modifications will have to be done (w.r.t import and package statements) in each source file. Do the necessary moves, then compile and run MytestClass.

Output to console of the correct program will be:

```
20
23
27
Printing DB Info
```

```
Here is the directory structure showing where files need
to be.
The . notation means current (or base) directory
    edu
      newpaltz
           - cs
               - databases
                  dbUtils.class
                   - dbUtils.java
                    dbUtils.java~
               oop
                   MytestClass.class
                    MytestClass.java
                    MytestClass.java~
                utils
                   MyPrintUtils.class
                   MyPrintUtils.java
             ....other stuff
```

Compile with: ./javac edu/newpaltz/cs/oop/MytestClass.java Run: ./java edu/newpaltz/cs/oop/MytestClass

The modifications needed for the source code are shown below:

```
package edu.newpaltz.cs.databases;
public class dbUtils {
         public static void printDB(){
               System.out.println("Printing DB Info");
         }
}
```