```
package edu.citadel.csci603.util;
import java.io.File;
import java.nio.file.*;
import java.nio.file.attribute.BasicFileAttributes;
import java.io.IOException;
import static java.nio.file.FileVisitResult.*;
/**
* Utility class that prints the directory structure to standard output
* showing the composition of nested files and subdirectories.
public class PrintDirectoryStructureVisitor extends SimpleFileVisitor<Path> {
    private int nestingLevel = 0;
    * Prints the structure for the file whose path name is given in arg[0].
    public static void main(String[] args) throws IOException {
        if (args.length != 1) {
            printUsage();
            System.exit(-1);
        String pathName = args[0];
        Path startingDir = Paths.get(pathName);
        PrintDirectoryStructureVisitor vis = new PrintDirectoryStructureVisitor();
        Files.walkFileTree(startingDir, vis);
    }
     * Prints the current file with the current nestingLevel value and continues walk.
     * Doesn't currently use the BasicFileAttributes arg, might consider removing
     * and removing override.
    @Override
    public FileVisitResult visitFile(Path file, BasicFileAttributes bfAttrs) {
        System.out.println(getIndentString(nestingLevel) + "- " +
                file.getFileName());
        return CONTINUE;
    }
     * Before visiting the dir, increments the nestingLevel and prints the dir name.
     * Doesn't currently use the BasicFileAttributes arg, might consider removing
param
     * and removing override.
    @Override
    public FileVisitResult preVisitDirectory(Path dir, BasicFileAttributes bfAttrs) {
        System.out.println(getIndentString(nestingLevel++) + "+ " +
                dir.getFileName());
        return CONTINUE;
    }
     * After visiting the dir, decrements the nestingLevel and continues the walk
    @Override
    public FileVisitResult postVisitDirectory(Path dir, IOException e)
            throws IOException
```

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{
         if(e == null) {
              nestingLevel--;
         } else throw e;
         return CONTINUE;
     }
     // Use inherited implementation for method visitFileFailed()
     private static String getIndentString(int nestingLevel) {
         StringBuilder s = new StringBuilder();
         for (int i = 0; i < nestingLevel; i++)
    s.append(" ");</pre>
         return s.toString();
     }
     private static void printUsage() {
         System.out.println("Usage: edu.citadel.csis603.util.(<path>)");
System.out.println(" where <path> is the path of a file or d:
                                     where <path> is the path of a file or directory");
         System.out.println();
     }
}
```