

Program #1 : Easy List

Update the list class that uses an array to implement its backend that we worked on in class. This time, the list must store integers instead of characters. Let's also agree that the function `GetValue` should return the value at some index in the list or -1. For this assignment, you will be provided two files:

- `ListTest.java` contains the `main` function. You may **not** modify this file!
- `ListTest.out` contains the output from my implementation of the updated list class. You would be wise to ensure your output is **exactly** the same.

Please keep the naming of the file you are to modify (`List.java`). This is the **only** file you will turn in. Do not turn in any other files (e.g., other `.java` sources or `.class` compiled bytecodes).

- Compiling `ListTest.java` should automatically use your `List.java` file (assuming they are in the same directory). After successful compilation, executing the class file SHOULD produce output identical to `ListTest.out`.
- Feel free to redirect the output to a file of your choosing, and then compare the two files (i.e. `ListTest.out`, and your output file) using the command prompt using commands such as **diff**, **comm**, **fc**, or any other you deem appropriate.
- For example, once completed, the commands shown below should **NOT** produce any output. Select whichever of the three utilities shown below – `fc`, `comm`, `diff`, that you prefer.

Windows:**fc**

```
javac ListTest.java
java ListTest > myOutput
fc ListTest.out myOutput
```

Linux: **comm**

```
javac ListTest.java
java ListTest > myOutput
comm -3 ListTest.out myOutput
```

Linux: **diff**

```
javac ListTest.java
java ListTest | diff ListTest.out -
```