

1. Do Problem 7.19(d).

Restriction: For all phases of this project you may not use any Java library functions that parse strings, for example `Integer.parseInt()`. That would defeat the purpose of the program, which is to parse the source.

Additional restriction: For this phase, you may not use any print statements like `System.out.printf()` in your `generateCode()` methods. All printing must be done in method `translate()`. The purpose of `generateCode()` is to return the string to be output. Use the formatting features of `String.format()` to compose the string to be returned by `generateCode()`.

Name your Java package `prob0719`. Note the lowercase `p`. Create a separate source file for each Java class. The first line of your source files must be `package prob0719;`. Name your IntelliJ project `Prob0719` and the class that has the main program as `Prob0719Main` in a file named `Prob0719Main.java`.

Export the source files in a JAR file named `Prob0719.jar`. Hand in the `.jar` file.