

1. Do Problem 7.18.

If the user enters

```
0d
```

the output to the console should be

```
0d is valid: 13
```

If the user enters

```
1D8G
```

the output to the console should be

```
1D8G is not valid.
```

To guarantee that the hexadecimal value does not occupy more than two bytes, check that the *decimal* value is not more than 65535. Note that 00000A is a valid hexadecimal constant even though it is longer than four characters.

You are not allowed to use the Java method `parseInt()` as the purpose of the program is to implement a parser yourself.

Name your Java package `prob0718`. Note the lowercase `p`. The first line of your source file must be `package prob0718;`. Name your IntelliJ project `Prob0718` and the class that has the main program as `Prob0718Main`. For your convenience, here is an IntelliJ project set up according to the above specifications for you to modify.

<https://www.cslab.pepperdine.edu/warford/cosc330/Prob0718.zip>

Export the source file in a JAR file named `Prob0718.jar`. Hand in the `.jar` file electronically per the instructions for your course.