This exercise will create a table lookup function in ARM assembly that is callable from C.

1. Create the project **ex07** and change to that directory.

   ```
   $ create-project ex07
   $ cd ex07
   ```

2. Copy top level and template code.

   ```
   $ cd src
   $ wget http://ece.boisestate.edu/ECE330/code/ex07.s
   $ wget http://ece.boisestate.edu/ECE330/code/array_index.s
   $ cd ..
   ```

3. Modify the assembly source **src/ex07.s** to take the argument value passed and use it to index into the array and return the appropriate value.

4. Update the **makefile** to reflect that the two downloaded source files.

5. Debug the code to make sure that the appropriate value is returned.

   ```
   $ make debug
   ```

6. Clean the project before submitting.

   ```
   $ make clean
   ```

**Submission.** (From the directory containing the **makefile**)

```
$ submit ece330 ex ex07
```

Note: Automatic scripting will be utilized to check the functionality of submitted code.