The purpose of this assignment is to use UNIX system calls to do some very basic process operations, and to retrieve arguments from the command line using C/C++.

For this assignment, you are to write a program that accepts two command line arguments: a “sleep” time and an iteration count. This program should contain a loop which sleeps for the specified amount of time, then wakes up and prints its name, process ID (PID) and iteration count to stderr. The loop should execute the number of times specified in the iteration count. Then the program should print a message and terminate.

For example, if the name of your program is testprog, the following command should execute the program for 10 iterations, sleeping 4 seconds between iterations:

```
testprog 4 10
```

The output should look something like:

```
Executing testprog, process id 28435, iteration number 1
Executing testprog, process id 28435, iteration number 2
Executing testprog, process id 28435, iteration number 3
Executing testprog, process id 28435, iteration number 4
Executing testprog, process id 28435, iteration number 5
Executing testprog, process id 28435, iteration number 6
Executing testprog, process id 28435, iteration number 7
Executing testprog, process id 28435, iteration number 8
Executing testprog, process id 28435, iteration number 9
Executing testprog, process id 28435, iteration number 10
```

testprog is now exiting.

You can run this program on any UNIX/LINUX system that you have access to. It should run on a Linux virtual machine under VirtualBox, or on Raspberry Pis.