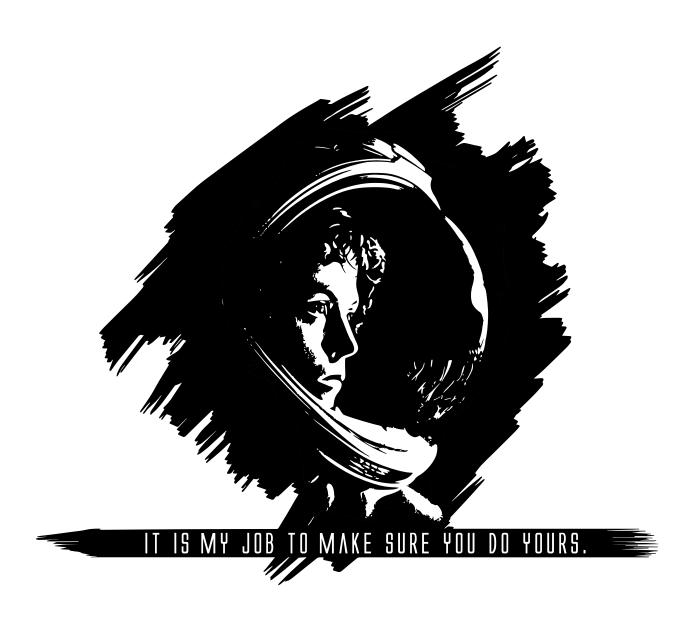


EXERCISES — My chrono

version #



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1 My chrono

Files to submit:

my_chrono/my_chrono.c

Main function: required

Authorized functions: You are only allowed to use the following functions:

- alarm(2)
- atoi(3)
- printf(3)
- sigaction(2)
- sigemptyset(3)

Authorized headers: You are only allowed to use the functions defined in the following headers:

- assert.h
- errno.h
- · err.h
- · stddef.h
- sys/types.h

1.1 Goal

For this exercise you will have to do a chronometer, using signals.

1.2 Usage

Your program should take the number of seconds to wait in parameter. After waiting the required time, it should print "End of chrono!" with a newline at the end and exit.

```
42sh$ ./my_chrono 3
End of chrono!
42sh$ ./my_chrono
Usage: ./my_chrono <time>
```

You just have to handle the case of no parameter. If there is no parameters return 1, else 0. The given parameter will always be a valid number.

1.3 Implementation

You **MUST NOT** use the sleep(3) function but the SIGALRM signal, look by yourself on how to trigger this signal.

Be careful!

You code will be compiled using ``-D_XOPEN_SOURCE``

It is my job to make sure you do yours.