

HW4: Count+Block+Ignore Ctrl C's!

Due Mar 14 by 9:30am **Points** 20 **Submitting** a file upload

Write a program that does the following:

- 1) Counts and prints the number of SIGINT signals received during the first 10 seconds of its life. (5 points)
- 2) "Blocks" the SIGINT signal once it reaches 10 seconds of its life. (5 points)
- 3) "Unblocks" and "Ignores" the SIGINT signal once it reaches 20 seconds of its life. (5 points)
- 4) Terminates after 30 seconds of life. (5 points)

Hints+Requirements:

1. To ignore a signal, you must modify its signal handler using `sigaction()`.
2. To count the SIGINTs, you must install a signal handler for SIGINT using `sigaction()`.
3. You can use `alarm()` to send yourself a SIGALRM signal after a specified number of seconds.
4. A signal can be waited upon using a signal handler + `sigsuspend()` OR using `sigwait()`.
5. In order to block/unblock a signal, you must modify the signal mask using `sigprocmask()`