Countdown Timer

Thread Managment

- read args
- create threds in main
  - Threads:
    1. manage/monitor a countdown timer
       - after x sec., signals all threads to termin[ate]
       - print terminal alarm noting countdown time[r]
         reached
       - terminates itself
    2. operates and monitors the countdown ti[mer]
       - signals when this time has elapsed
    3. implement a "wall clock"
       - prints hour, min, and sec time of day
         once every second.

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       - prints hour, min, and sec time of day once every second.

- After all threads terminate:
  - parent process prints friendly exit notiffication

- read arguments
  - if not provided use defaults (25, 1, 17)
- Create threads from main
  - Threads:
    1. Busy waits 'till all threads have completed
       - print friendly message giving notice of an exit
       - perform a clean exit
    2. Signal handler for the process (all threads)
    3. Manage/Monitor a countdown timer
       - after x sec. signals all threads to terminate
       - print terminal alarm noting countdown time has been reached
       - terminates itself
    4. Operates and monitors the "countdown timer"
       - signals when this time has elapsed
    5. Implement a "wall clock"
       - prints hour, min, and sec time of day every second