Non-Blocking Subroutine without Explicit Timer

```
import time
import threading
import os
import signal
class Timer(threading.Thread):
    timeout = False
    _timer = 0
    _stopped = False
    def __init__(self, delay):
        super(Timer, self).__init__()
        self.restart(delay)
    def is_timeout(self):
        return self._timeout
    def stop(self):
        self._stopped = True
    def restart(self, delay):
        self._stopped = False
        self._timer = time.time() + delay
    def run(self):
        while not self._stopped:
            time.sleep(0.1)
            if time.time() >= self. timer:
                break
        if not self._stopped:
            self._timeout = True
            # check os name
            if os.name == 'nt':
                # we are on Windows
                os.kill(os.getpid(), signal.CTRL_C_EVENT)
            else:
                # we are on a Posix/Unix (or very unlikely on java) system
                os.kill(os.getpid(), signal.SIGINT)
```

```
def main():
    first input = input('First input:')
    delay = 10
    timer = Timer(delay)
    timer.daemon = True
    try:
        print('\nStarting the timer for the second input %r second(s)' % delay
        timer.start()
        second_input = input('Second input:')
        print('\nWell done. Stopping the timer!\n')
        timer.stop()
        print('Input values: %r %r\n' % (first_input, second_input))
        # do your stuff here...
    except KeyboardInterrupt:
        if timer.is_timeout():
            print("\nTimeout!")
        else:
            print("\nUser interrupted the input")
main()
```

OUTPUT

```
First input:13

Starting the timer for the second input 10 second(s)

Second input:2

Well done. Stopping the timer!

Input values: '13' '2'
```