

```
1 from multiprocessing import Process
2 from time import *
3 from random import *
4
5 def sleeper(name):
6     t = gmtime()
7     s = randint(1,20)
8     txt = str(t.tm_min)+':'+str(t.tm_sec)+' '+name+' is going to sleep for '+str(s)+' seconds
9     print(txt)
10    sleep(s)
11    t = gmtime()
12    txt = str(t.tm_min)+':'+str(t.tm_sec)+' '+name+' has woken up'
13    print(txt)
14
15 if __name__ == '__main__':
16     p = Process(target=sleeper, args=('eve',))
17     q = Process(target=sleeper, args=('bob',))
18     p.start(); q.start()
19     p.join(); q.join()
```

(a)

```
40:23 eve is going to sleep for 14 seconds
40:23 bob is going to sleep for 4 seconds
40:27 bob has woken up
40:37 eve has woken up
```

(b)