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CSE 3342

HW8

The Changed part of code was merely dividing up the dowork into multiple calls. Rest of the file was untouched. The changed portion is :

```
44 def partitionWorkOneThread(nComputations, nWorkers):
45     computationsPerWorker = nComputations / nWorkers
46
47     # TODO: write a loop so that dowork(start,end) is called nWorker times
48     #     for example, if this function is called as partitionWorkOneThread(1000, 5)
49     #     your loop should result in: dowork(0,200), dowork(200,400) ....dowork(800,1000)
50     #     of course, the calls will use variables
51
52     # Dividing dowork into mulitple calls
53     for x in range(0, nWorkers):
54         #calculate start and stops for each call made
55         start = computationsPerWorker * x
56         stop = computationsPerWorker * (x + 1)
57         dowork(start, stop)
58
59
```

Result is :

```
In [3]: runfile('C:/Users/lg/Downloads/hw8Timing.py', wdir='C:/Users/lg/Downloads')
Single Thread          : SUM= 4998925.462873  Time=5.871243
Single Thread (Workers) : SUM= 4998925.462873  Time=5.858573
```

The result shows SUM is exactly the same, and time shows small difference.