

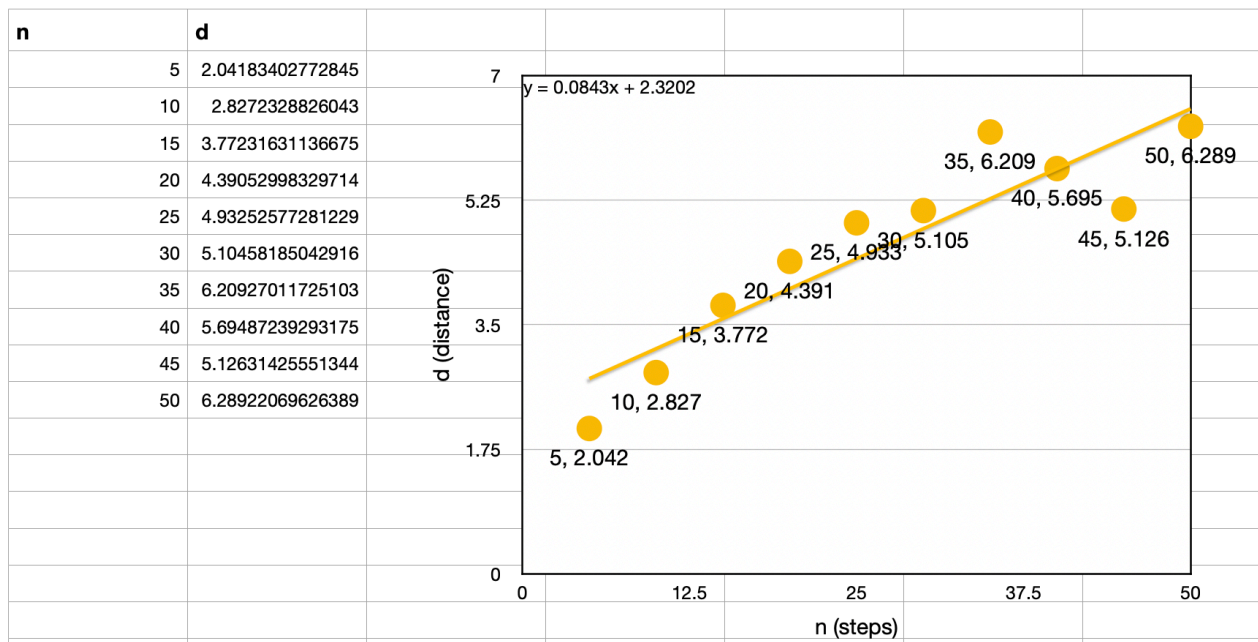
# Program Structures & Algorithms

## Fall 2021

### Assignment NO. 1

- Relationship Conclusion:  $d = 0.0843n + 2.3202$
- Evidence to Support the Conclusion:

```
/Library/Java/JavaVirtualMachines/jdk1.8.0_301.jdk/Contents/Home/bin/java ...  
5 steps: 2.041834027728472 over 30 experiments  
10 steps: 2.8272328826043043 over 30 experiments  
15 steps: 3.7723163113667524 over 30 experiments  
20 steps: 4.390529983297143 over 30 experiments  
25 steps: 4.932525772812285 over 30 experiments  
30 steps: 5.104581850429155 over 30 experiments  
35 steps: 6.209270117251029 over 30 experiments  
40 steps: 5.69487239293175 over 30 experiments  
45 steps: 5.126314255513444 over 30 experiments  
50 steps: 6.28922069626389 over 30 experiments  
  
Process finished with exit code 0
```



- Unit Tests Result:

