

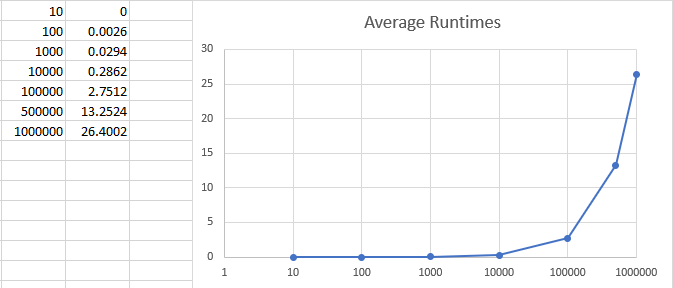
The get\_rightmost function will be O(n), since it has to search through the list to find the max.

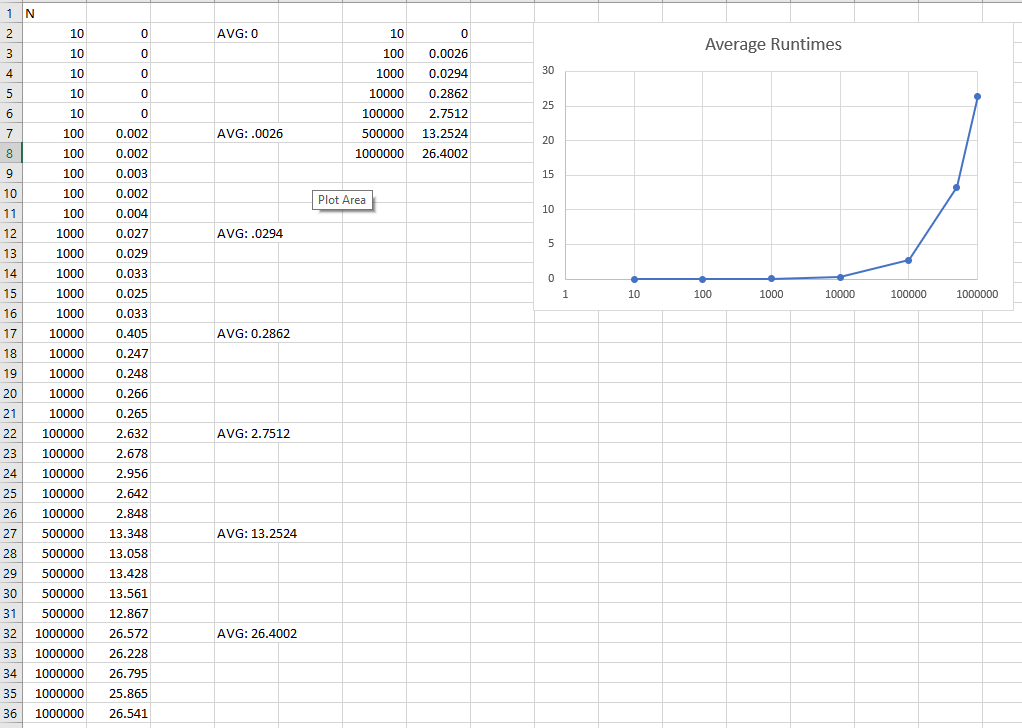
The get\_best\_slope\_index will be at worst O(n), if it has to go through every point to find the best slope.

The get\_top\_points and get\_bottom\_points will both be O(n), since the biggest time sinks are the calls to get\_best\_slope\_index

Combine will be O(n) since a new hull is created and all the points are added to it.

Overall, the time complexity is O(nlog(n)) according to the Master Theorem; A = 2, B = 2, and D = 1





For the constant of proportionality, I got about 4.4\*10^(-6), but my data fit my time complexity analysis otherwise.

For n = 1000000, k = 26.4002 / (1000000\*log(1000000))

