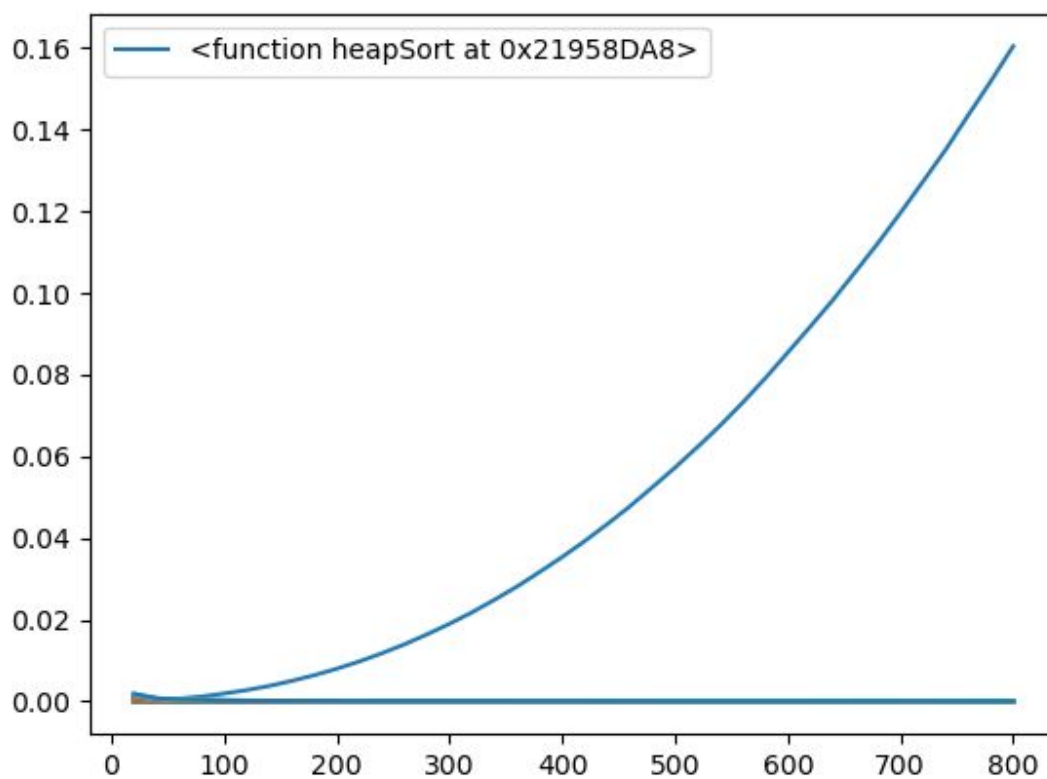Noah Solomon
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Algorithms for Data Science
September 19, 2020

We wish to demonstrate that the average run time of Heap sort is 0(nlogn).
We achieved this by simply graphing the run times of the algorithm in question divided by nlogn-

Since the lines we found were of constant slope (ie straight) , this proves that heapsort runs in some constant multiple of nlogn time showing that our theoretical result was indeed correct.