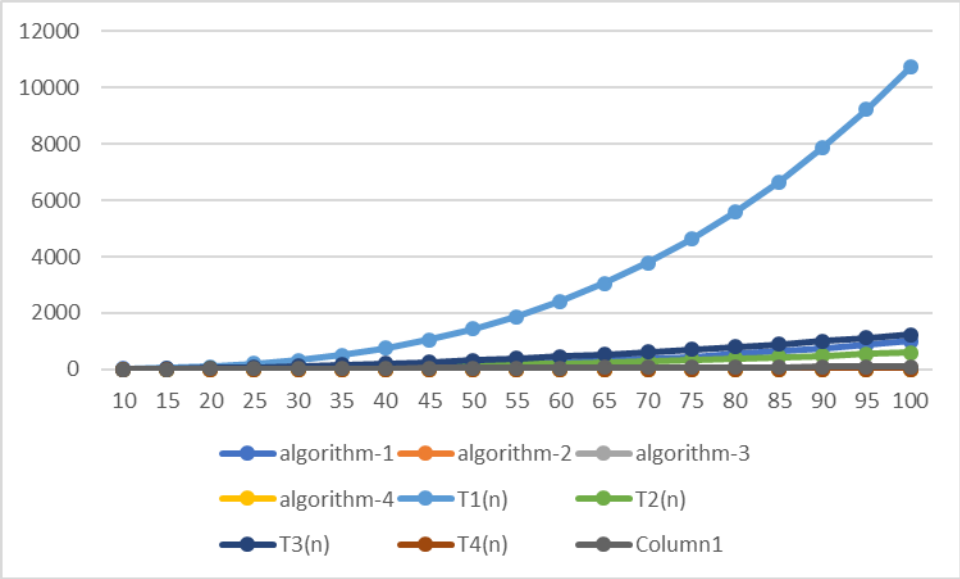
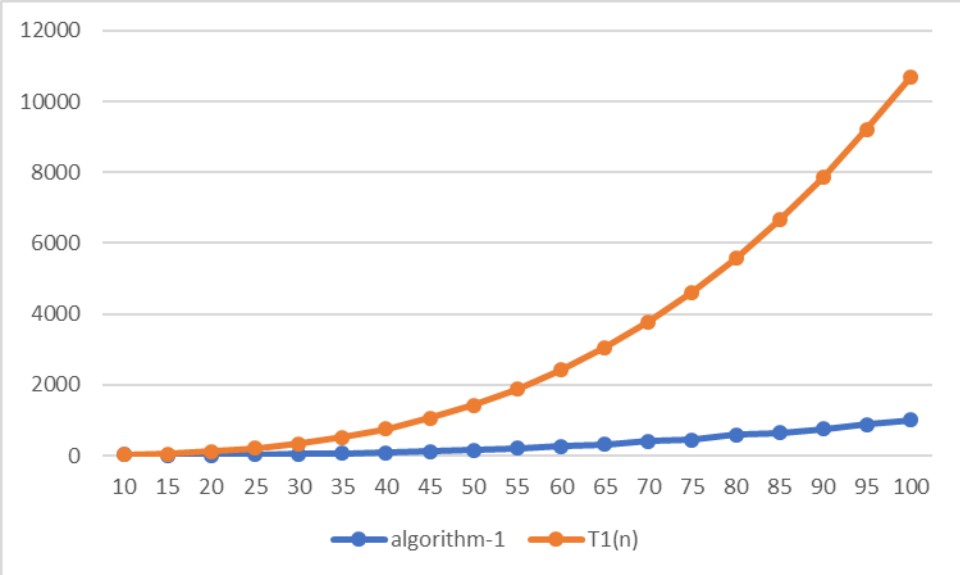
Algorithms Graphs *Summer 19'* Tae Myles

Total curves



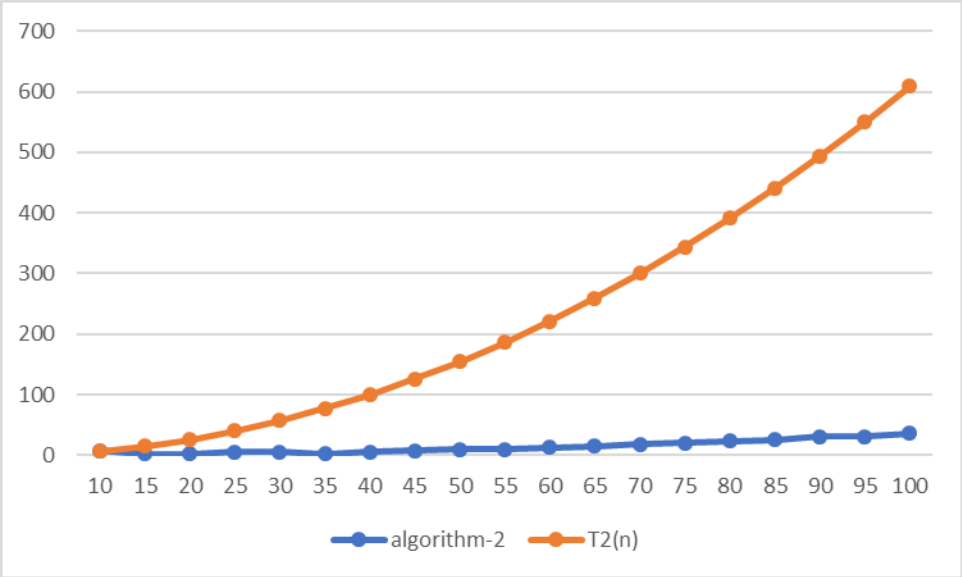
Algorithm 1



$T_1(n) = O(n^3)$

Looks as expected, matching its time taken with the complexity of the algorithm.

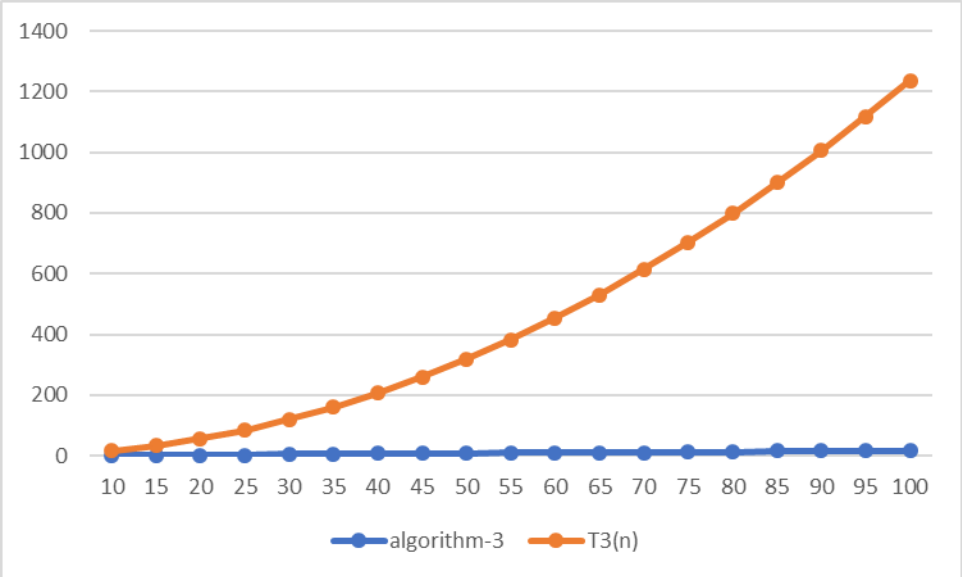
Algorithm 2



$T_2(n) = O(n^2)$

Looks as expected for the most part, algorithm-2 stabilized as time went on.

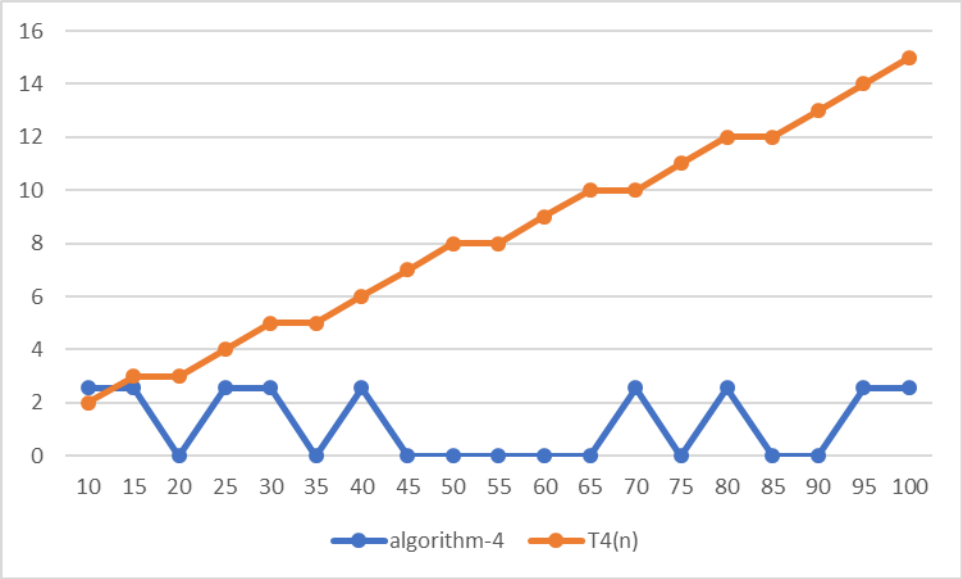
Algorithm 3



$T_3(n) = O(n^2)$

Looks as expected, matching its time taken with the complexity of the algorithm.

Algorithm 4



$T_4(n) = O(n)$

Did not this expect this at all, it wasn't able to match the time taken with the complexity of the algorithm. I tried increasing repetition by a factor of 10, which gave similar result to this graph.

So, it is getting enough run time, possibly a logical mistake within source code.