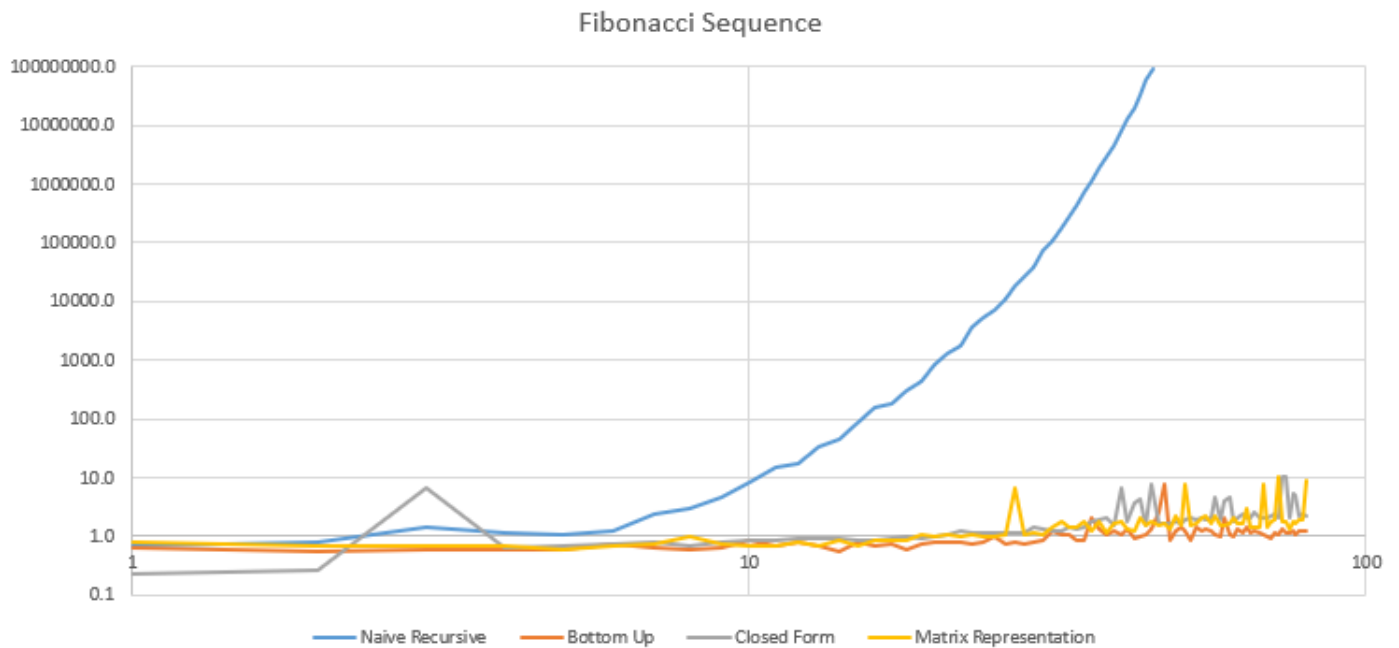


ADS_Homework5

Problem 5.1

d)



Among these 4 methods of getting n'th Fibonacci value,

'Naïve Recursive' algorithm bounds to $O(n^2)$, which is obviously time consuming then other three methods.

Except the one, other three methods (Bottom Up, Closed Form, Matrix Representation) seems to be bounded by $O(\lg n)$ - or $O(n)$ - which is much more efficient on time-complexity comparison.

Problem 5.2

d)

