# Programming Assignment 1

# ESO207

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(a) The recurrence relations for U(n) and D(n). Given U(1) = 1;D(1) = 0.

U(n) = 3\*U(n-1) + D(n-1). D(n) = 3\*D(n-1) + U(n-1).

(e) The graph (Input (n) vs. Time required (micro-seconds)) for each of the three methods are as follows:



