**Assignment 1**

Q1 Take an array of your choice (n=7) and apply selection sort and insertion sort. Show your process and perform asymptotic analysis.

Q2 Solve the following recurrence relations and give a bound for each of them

(a) T(n) = 2 T(n/3)+ 1

(b) T(n) = 9 T(n/3) + n2

(c) T(n) = 49 T(n/25) + n3/2 log n( n cube divided by 2 logn)