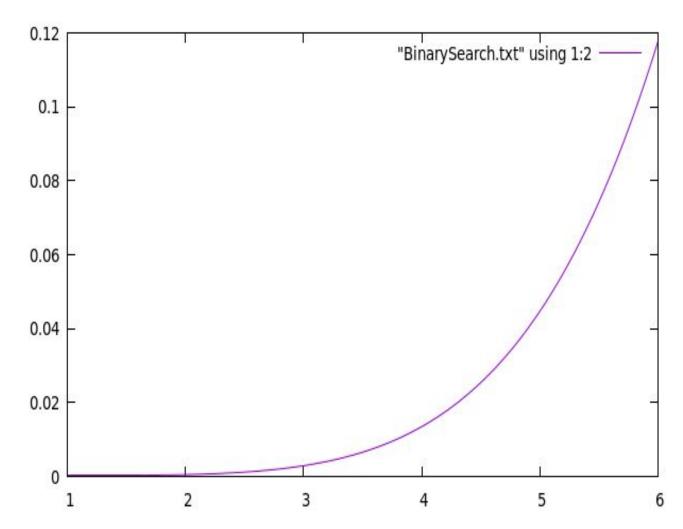
ASSIGNMENT 3 PLOTS

Time(t)=100*(time taken for execution)/CLOCKS_PER_SEC.

n: no.of elements in the vector/ no.of rows in the matrix.

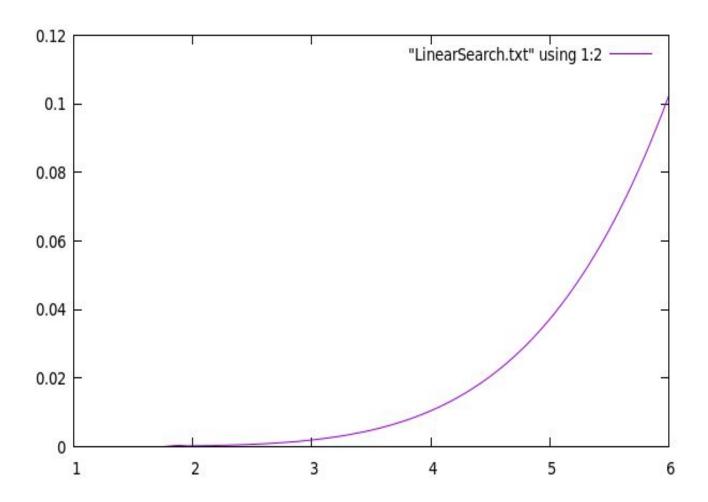
m: no.of columns in the matrix.



Binary Search:

X-axis: log10(n), Y-axis: time(t).

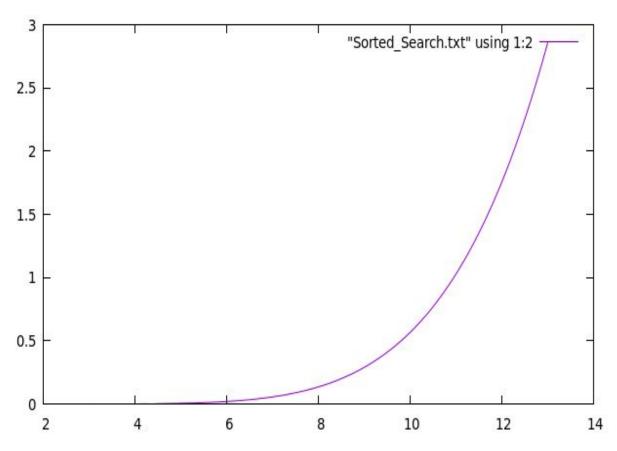
Time(t) is O(log10(n)) so the graph should be linear curve.



Linear Search:

X-axis: log10(n), Y-axis: time(t).

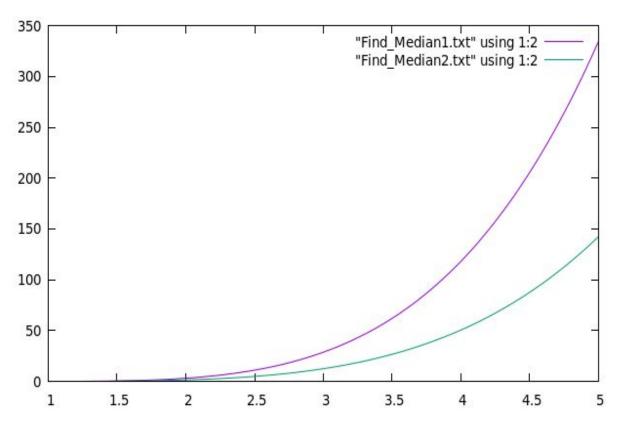
Time(t) is O(n) so the graph is exponential curve.



Sorted Search:

X-axis: log2(n+m), Y-axis: time(t),

Time(t) is O(n+m) so the graph should be exponential curve.



Find Median:

X-axis: log10(n), Y-axis: time(t).

Time(t) is O(n*log(m)), m is constant for find_median1,find_median2 so it should be exponential graph.