* Asymptotic Analysis
* Recurrences, Divide & Conquer
* Master Theorem
* Mergesort, Quicksort
* Heaps and Heapsort
* Median and Order Statistics
* Binary Search Trees
* Quicksort
  + log(1/a)(n)
  + ln(n) / lg(1/a)
  + ln(n) / -ln(a)
* Building a heap using insertion
* s’ = s-(n-1/2)d + ((n-1/2)+1)d
* s’ = s +d
* if n is odd, if n is even similar but two medians
* Binary Search Tree