Quiz 1

This is the first of several Google Quiz to replace Midterm Exam by google multiple choice quizzes in combination with a take home exercise on November 5-6.

   True and Flase questions: Answer True or False to each question below. Answer true only if it is true as stated with no additional assumptions. Adding a short explanation will give you partial credit even if your answer is wrong. All questions have equal points.
* Required

1.   First provide your Name and ID *

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2.   The sum total height TH(N) and total depth TD(N) of N nodes in a binary tree is HN only if the tree is perfect.

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3.   Given an array of N integers, the best algorithm has a worst case time to build the heap $\Theta(N\log(N))$.

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4.   It is possible to formulate Quick Sort to be worst case O(N log N) including the costof picking suitable pivot.

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5. For the master equation T(n)=aT(n/b)+n^k with γ=log(a)/log(b) the solution is always a sum of terms powers n^γ and n^k.

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6. Consider a binary search tree with n keys. Finding whether a key value is already in the tree ca be done in O(log(n)).

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