Binary Search Trees Height of a Tree

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Binary Search Trees

Given that a Binary Search Tree contains N
records stored in the internal nodes, the
height of the search tree is computed as

$$\left[Log_2(N+1)\right]$$

Binary Search Trees

Maximum Number of Comparisons

The height of a binary search tree is equivalent to the maximum number of comparisons need to find a record in a database that is structured as a binary search tree.

Binary Search Trees

Suppose a binary search tree contains 3
million internal nodes. What is the height of
the binary search tree?