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FW: Lowest Common Ancestor

1 message

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Thu, May 25, 2023 at 6:09 AM

From: Daily Byte
Sent: Thursday, May 25, 2023 6:09:42 AM (UTC-08:00) Pacific Time (US & Canada)
To: William Ting
Subject: Lowest Common Ancestor

The Daily Byte

Good morning,

Need help with yesterday's problem? Start getting solutions.

Today's Byte

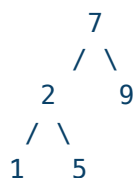
Given a binary search tree that contains unique values and two nodes within the tree,

a , and

b , return their lowest common ancestor.

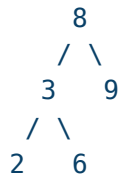
Note: the lowest common ancestor of two nodes is the deepest node within the tree such that both nodes are descendants of it.

Ex: Given the following tree...



and a = 1, b = 9, return a reference to the node containing 7.

Ex: Given the following tree...



and $a = 2$, $b = 6$, return a reference to the node containing 3.

Ex: Given the following tree...



and $a = 6$, $b = 8$, return a reference to the node containing 8.

Thanks,
The Daily Byte

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