Basic Tree Concept: Defining ancestors

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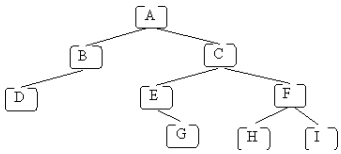

What defines an ancestor? More specifically, would E be an ancestor to H? Or is it more simply that F,C,A are ancestors to H? Maybe even G? I would just like to clear up this simple concept.

data-structures tree

asked Apr 10 '12 at 19:15

Pat Murray
1,411 3 15 28

1 Answer

E is not an ancestor of H. It's an **uncle** because it's a **sibling** of F, which is the **parent** of H.

F,C,A are **ancestors** of H. That's true.

G is not relevant to H at all.

Tree structure relationship notation can be found here (according to Wikipedia)

> - A node's "parent" is a node one step higher in the hierarchy (i.e. closer to the root node) and lying on the same branch.
> - "Sibling" ("brother" or "sister") nodes share the same parent node.
> - A node's "uncles" are siblings of that node's parent.
> - A node that is connected to all lower-level nodes is called an "ancestor". The connected lower-level nodes are "descendants" of the ancestor node.

swered Apr 10 '12 at 19:29

Thiem Nguyen
5,772 6 22 44

G and H are cousins man.. – Atieh Aug 29 '14 at 1:58