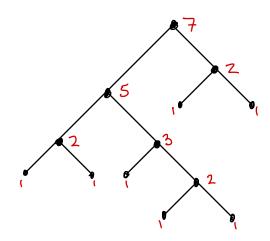
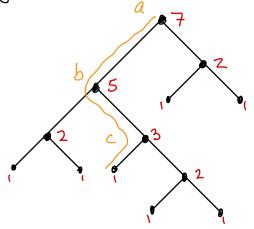
Indexing paths in a binary thee:
lignaring the fact that to choose a path is to choose a leaf node)

Number of sub-paths below each node



150 there are paths w/ indires 1 through 7.

e.g. find path with index 3.



at (a) we go left because 523

at (b) we go right because 243,

and we adjust the sub-index to

3-2=1.

at (c) we go left because 141

Algorithm: Indexing paths in a binary tree:

Inputs: A browny tree and an index Set the subindex i to the index

set current node to root node

while current node is not a leaf node;

let n be subpaths below left child of current node.

If NZi;

Set new current node to left child of old current node otherwise;

Set new current node to right dild of old current node set new subindex i to i-n.

The final 'current nock' is the nock with the provided index.