

Name: Eric Fode

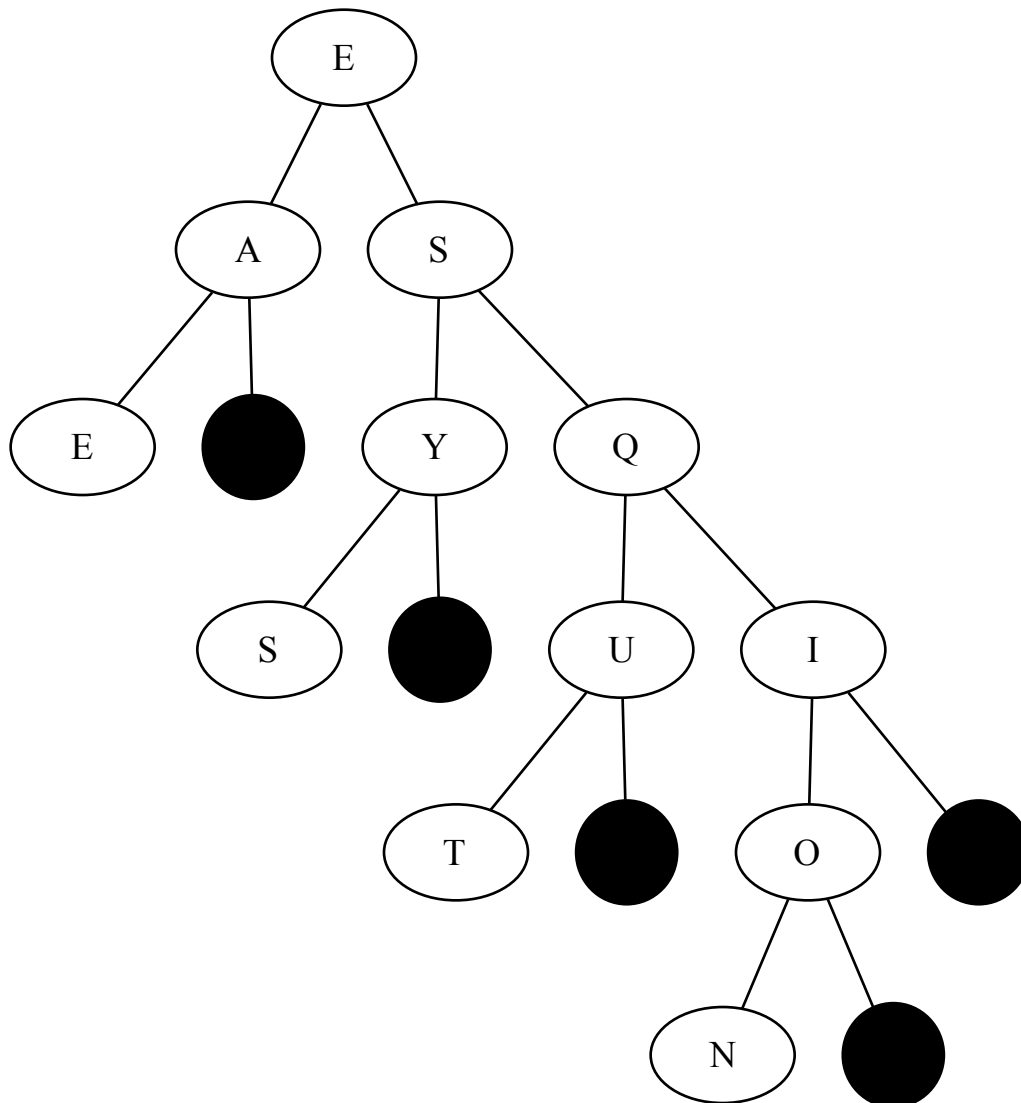
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Solution for Problem 1

The lower bound of the number of leaf nodes occur when all the nodes in the tree have exactly one child. In this case there will be only 1 leaf node.

The upper bound of the number of leaf nodes occurs when the tree is full in which case the tree will have $n/2$ leaf nodes.

Solution for Problem 2



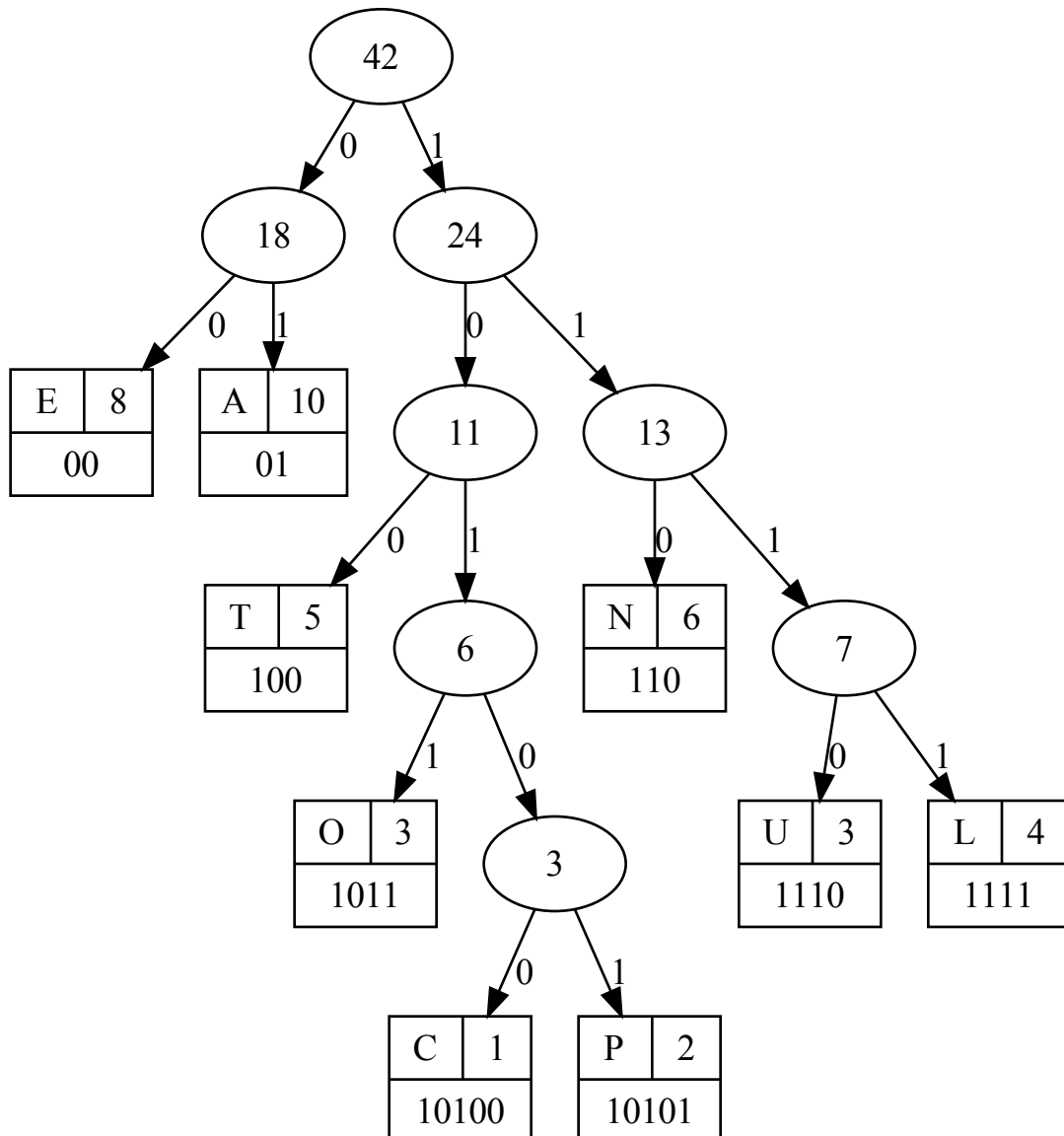
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Solution for Problem 3

meet me later

Solution for Problem 4



CSCD300 Homework 6, Winter 2012, Eastern Washington University. Cheney, Washington.

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EWU ID:00530214

Solution for Problem 5

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