CS140 Homework 11 [10 pts]

Due 11.10am Tuesday April 2, 2019

Problem 1 [10]

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T    R    U    P    Q    N    S
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[0] Sketch the binary search tree produced for the above data where each letter is a key.

[3] Delete node R by promoting its inorder predecessor. Sketch the resulting binary tree.

[3] Delete node Q by promoting its inorder predecessor. Sketch the resulting binary tree.

[2] Delete node N by promoting its inorder predecessor. Sketch the resulting binary tree.

[2] Delete node T by promoting its inorder predecessor. Sketch the resulting binary tree.

Each deletion operation is done on the binary tree produced by the previous deletion operation.