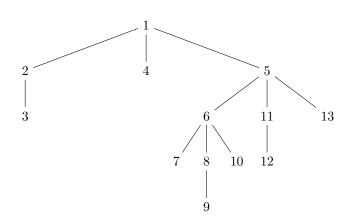
NOTES ON STACKS AND DEPTH FIRST SEARCH

ERIC MARTIN



Popping a path from the top of the stack (right of list) and pushing its extensions from right to left to the top of the stack.

[[1]]

$$[[1,5],[1,4]] [1,2]$$

$$\big[[1,5],[1,4],[1,2,3]\big]$$

$$[[1,5],[1,4]]$$
 $[1,2,3]$

$$[1,5]$$

$$[1,4]$$

$$[] \qquad \qquad [1,5]$$

$$\big[[1,5,13],[1,5,11],[1,5,6]\big]$$

$$\big[[1,5,13],[1,5,11]\big] \hspace{3cm} [1,5,6]$$

$$\big[[1,5,13],[1,5,11],[1,5,6,10],[1,5,6,8],[1,5,6,7]\big]$$

$$\big[[1,5,13],[1,5,11],[1,5,6,10],[1,5,6,8]\big] \hspace{1.5cm} [1,5,6,7]$$

$$\big[[1,5,13],[1,5,11],[1,5,6,10]\big] \hspace{3cm} [1,5,6,8]$$

$$[[1, 5, 13], [1, 5, 11], [1, 5, 6, 10], [1, 5, 6, 8, 9]]$$

$$\big[[1,5,13],[1,5,11],[1,5,6,10]\big] \hspace{3cm} [1,5,6,8,9]$$

$$\big[[1,5,13],[1,5,11]\big] \hspace{3cm} [1,5,6,10]$$

$$\big[[1,5,13]\big] \hspace{3.1cm} [1,5,11]$$

$$[[1,5,13]] [1,5,11,12]$$

[1,5,13]

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