

Name: _____

1. The array below represents a binary tree, using the representation covered in class. Draw the binary tree represented by the array. Be careful when a node has only one child to make clear whether it is a right or left child.

$A = \{A, B, D, \text{null}, C, \text{null}, E, \text{null}, \text{null}, F\}$

2. A priority queue can be used to implement a stack by setting the priorities in such a way that the elements satisfy the Last-In-First-Out policy. How should the priorities be set to make a priority queue behave as a stack?

[Note: This is a less efficient implementation of a stack than ones we have previously covered.]