



[Daily Problem] Invert a Binary Tree

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Hi, here's your problem today. This problem was recently asked by Twitter:

You are given the root of a binary tree. Invert the binary tree in place. That is, all left children should become right children, and all right children should become left children.

Example:

```

      a
     /\
    b  c
   /\ /\
  d  e f

```

The inverted version of this tree is as follows:

```

      a
     /\
    c  b
   /\ /\
  f  e d

```

Here is the function signature:

```

class Node:
    def __init__(self, value):
        self.left = None
        self.right = None
        self.value = value
    def preorder(self):
        print self.value,
        if self.left: self.left.preorder()
        if self.right: self.right.preorder()

def invert(node):
    # Fill this in.

root = Node('a')
root.left = Node('b')
root.right = Node('c')
root.left.left = Node('d')
root.left.right = Node('e')
root.right.left = Node('f')

root.preorder()
# a b d e c f
print "\n"
invert(root)
root.preorder()
# a c f b e d

```

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