117. Populating Next Right Pointers in Each Node II

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• Depth-first Search + Tree

Description

Follow up for problem "Populating Next Right Pointers in Each Node".

What if the given tree could be any binary tree? Would your previous solution still work?

Note:

· You may only use constant extra space.

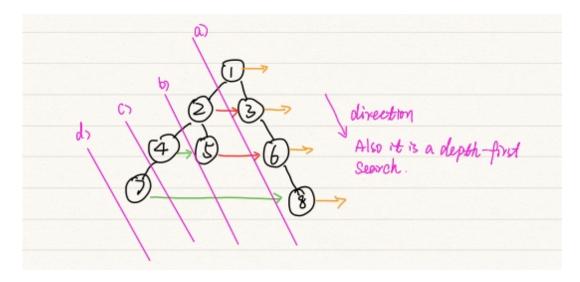
For example,

Given the following binary tree,

After calling your function, the tree should look like:

```
1 -> NULL
/ \
2 -> 3 -> NULL
/ \
4-> 5 -> 7 -> NULL
```

1. Thought line



2. Depth-first Search + Tree