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FW: Trees Within Trees

1 message

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Fri, Aug 11, 2023 at 6:09 AM

To: "williamdjting@gmail.com" <williamdjting@gmail.com>

From: Daily Byte**Sent:** Friday, August 11, 2023 6:09:32 AM (UTC-08:00) Pacific Time (US & Canada)**To:** William Ting**Subject:** Trees Within Trees

The Daily Byte

Good morning,

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Today's Byte

This question is asked by Amazon. Given two trees

s and

t return whether or not

t is a subtree of

s .

Note: For

t to be a subtree of
 s not only must each node's value in
 t match its corresponding node's value in
 s, but
 t must also exhibit the exact same structure as
 s. You may assume both trees
 s and
 t exist.

Ex: Given the following trees

s and
 t ...

```
s = 1
  / \
 3   8
t = 1
  \
   8
return false
```

Ex: Given the following trees

s and
 t ...

```
s = 7
  / \
 8   3
t = 7
  / \
 8   3
return true
```

Ex: Given the following trees

s and

t ...

```
s = 7
  / \
 8   3
t = 7
  / \
 8   3
    /
   1
return false
```

Thanks,
The Daily Byte

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