Subject: Data Structures #205  
Posted by gxu2 on Tue, 30 Aug 2016 01:27:49 GMT 
View Forum Message <> Reply to Message  

Does anybody know what this is asking. 
If I understand this right permutations would come up to 12, if not 6. 

Thanks 

Subject: Re: Data Structures #205  
Posted by matt.york on Tue, 30 Aug 2016 03:08:44 GMT 
View Forum Message <> Reply to Message  

I think the permutation count will be lower than that. Taking a first insertion of 1 for example, we have only two permutations (1) -> (2) -> (3) and then (1) -> (3) -> (2), where two is inserted at the third level of the tree to the left of 3. 

Hope this helps! 

-Matt 

Subject: Re: Data Structures #205  
Posted by jarobinson3 on Tue, 30 Aug 2016 05:06:17 GMT 
View Forum Message <> Reply to Message  

The problem I have with it is that he just says binary trees, therefore anything can go in any order. Also, you only have two nodes. 

There are two shapes: 

```
(x) (x) 
(y) (y) 
```

Here are six with the left child: 

```
(1) (1) (2) (2) (3) (3) 
(2) (3) (1) (3) (1) (2) 
```

However, we have repeats (if you think about permutations), here are two repeated trees: 

```
From here you should be able to figure out the rest.