

DAILY ONLINE ACTIVITIES SUMMARY

Date:	01-07-2020	Name:	Chetana H
Sem & Sec	6th-A	USN:	4AL17CS021
Online Test Summary			
Subject			
Max. Marks	-	Score	-
Pre-placement Training Summary			
Topic	---		
Faculty	--	Duration	--
Coding Challenges			
Problem Statement:			
Status:Solved			
Uploaded the report in GitHub		yes	
If yes Repository name		https://github.com/chetana-H/online-course2	
Uploaded the report in slack		yes	

PROGRAMS

Write a program to find given two trees are mirror or not.

```
class Node
{
    int data;
    Node left, right;

    public Node(int data)
    {
this.data = data;
        left = right = null;
    }
}

public class BinaryTree
{
    Node a, b;

    boolean areMirror(Node a, Node b)
    {
        if (a == null && b == null)
            return true;

        if (a == null || b == null)
            return false;

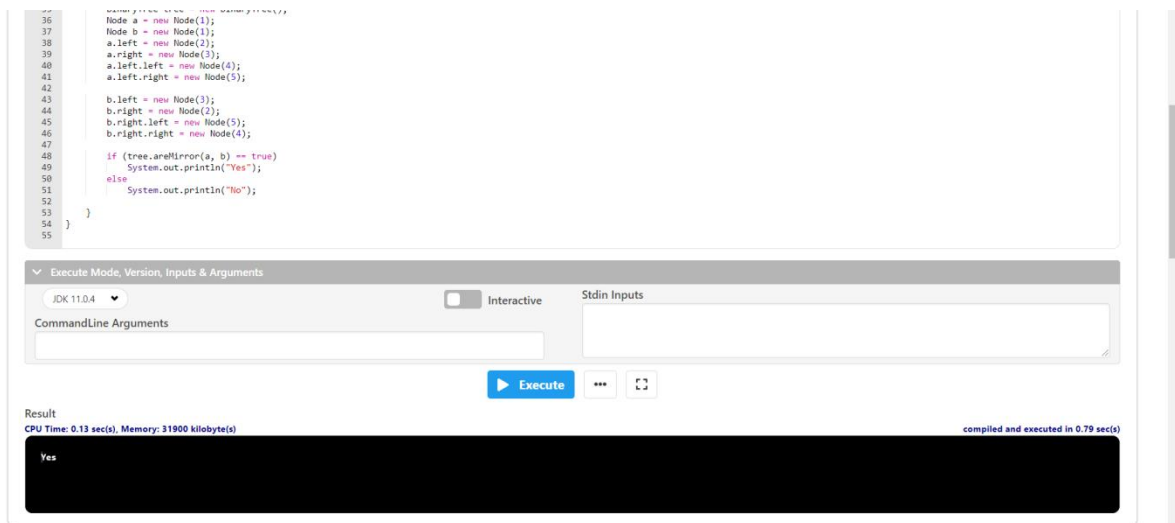
        return a.data == b.data
            && areMirror(a.left, b.right)
            && areMirror(a.right, b.left);
    }

    public static void main(String[] args)
    {
        BinaryTree tree = new BinaryTree();
        Node a = new Node(1);
        Node b = new Node(1);
    }
}
```

```
a.left = new Node(2);  
a.right = new Node(3);  
a.left.left = new Node(4);  
a.left.right = new Node(5);
```

```
b.left = new Node(3);  
b.right = new Node(2);  
b.right.left = new Node(5);  
b.right.right = new Node(4);
```

```
        if (tree.areMirror(a, b) == true)  
System.out.println("Yes");  
        else  
System.out.println("No");  
    }  
}
```



The screenshot shows an IDE window with a Java file named `tree.java`. The code defines two binary trees, `a` and `b`, and a method `areMirror` to check if they are mirror images. The execution output shows the result "Yes".

```
36 Node a = new Node(1);  
37 Node b = new Node(1);  
38 a.left = new Node(2);  
39 a.right = new Node(3);  
40 a.left.left = new Node(4);  
41 a.left.right = new Node(5);  
42  
43 b.left = new Node(3);  
44 b.right = new Node(2);  
45 b.right.left = new Node(5);  
46 b.right.right = new Node(4);  
47  
48 if (tree.areMirror(a, b) == true)  
49     System.out.println("Yes");  
50 else  
51     System.out.println("No");  
52  
53 }  
54  
55 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4 ☐ Interactive Stdin Inputs

CommandLine Arguments

Execute ******* **🔄**

Result
CPU Time: 0.13 sec(s), Memory: 31900 kilobyte(s) compiled and executed in 0.79 sec(s)

Yes