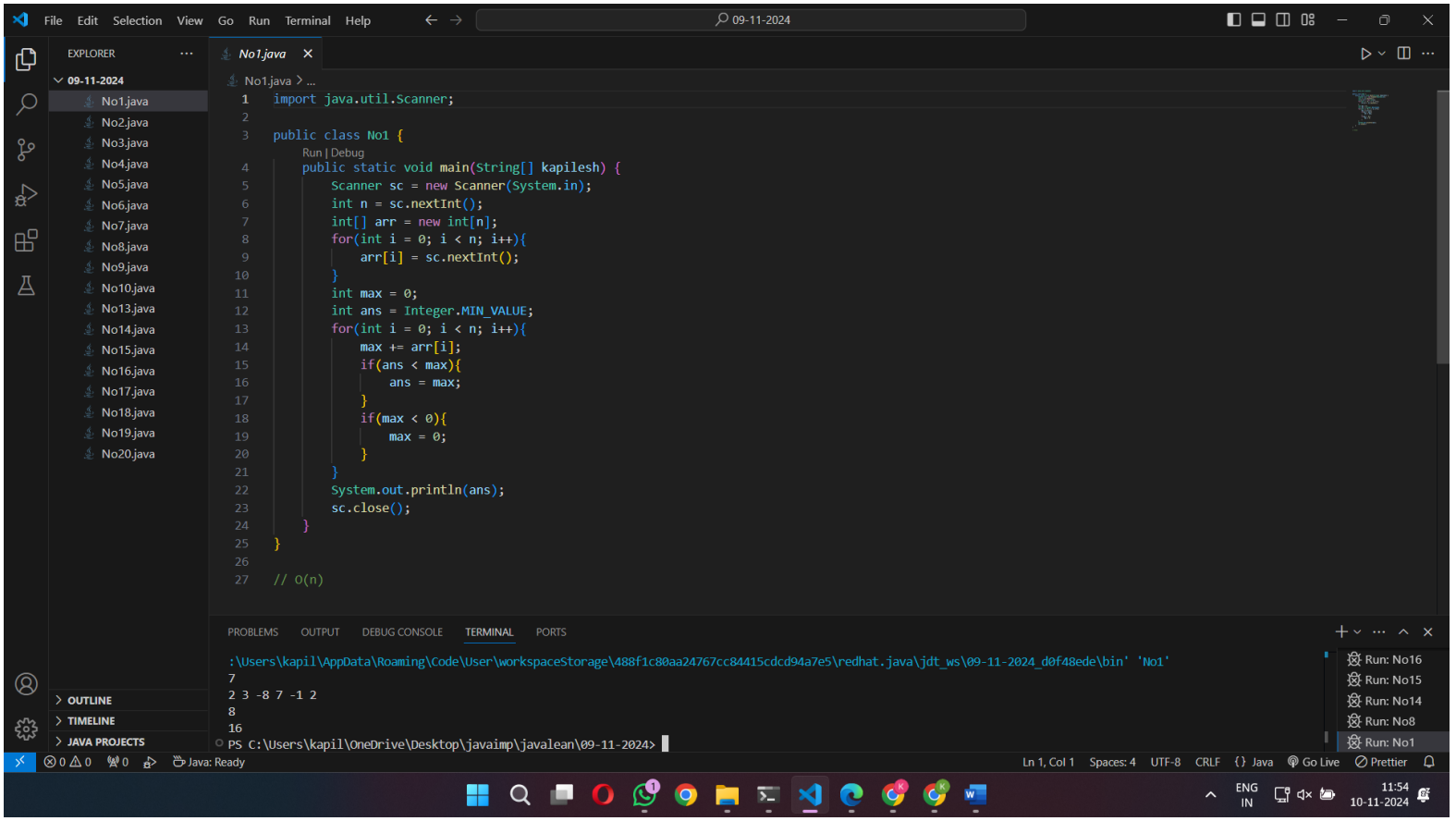
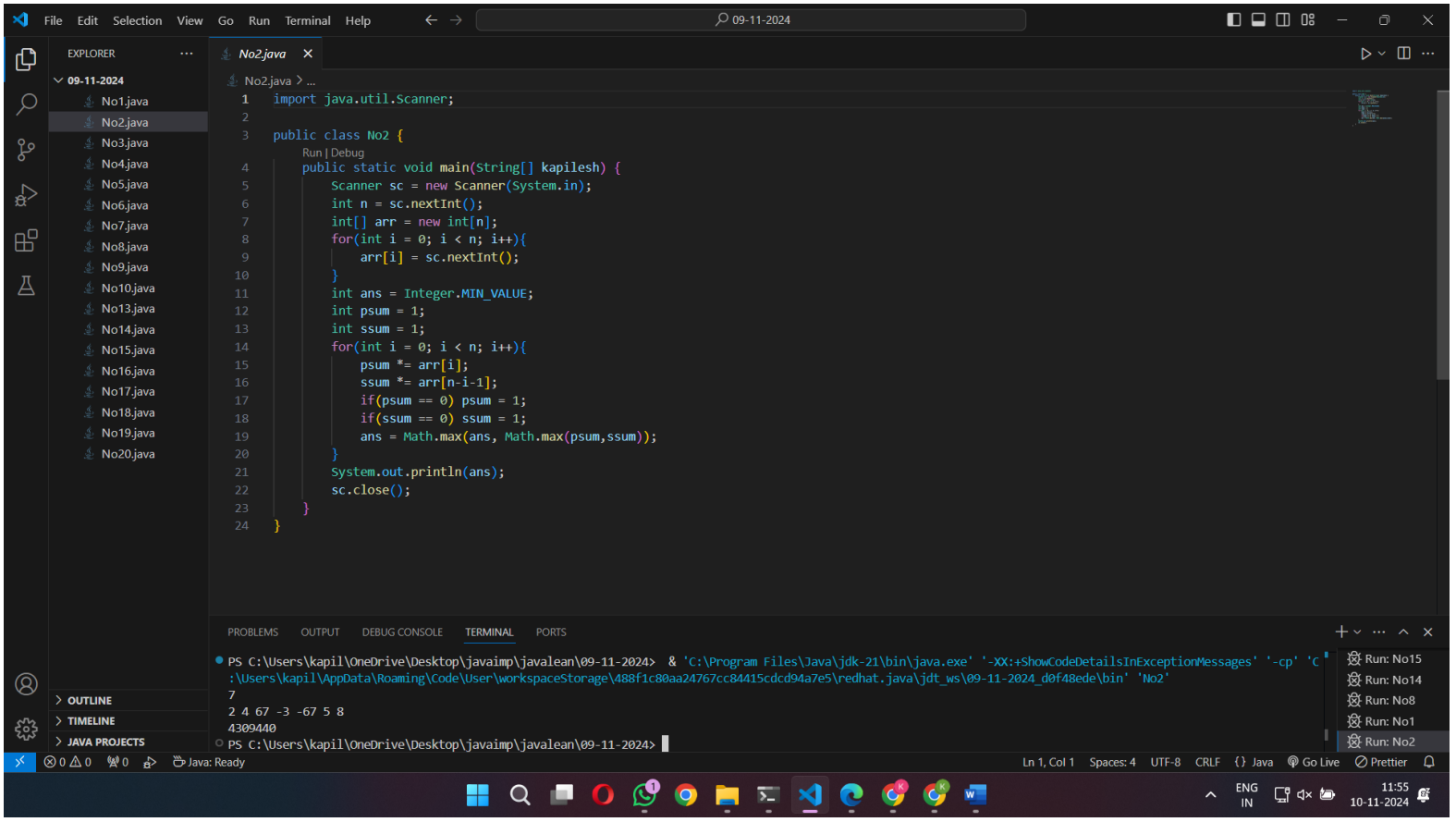
1)


File Edit Selection View Go Run Terminal Help
09-11-2024
EXPLORER
09-11-2024
No1.java
No2.java
No3.java
No4.java
No5.java
No6.java
No7.java
No8.java
No9.java
No10.java
No13.java
No14.java
No15.java
No16.java
No17.java
No18.java
No19.java
No20.java
No1.java
import java.util.Scanner;
public class No1 {
Run | Debug
public static void main(String[] kapilesh) {
Scanner sc = new Scanner(System.in);
int n = sc.nextInt();
int[] arr = new int[n];
for(int i = 0; i < n; i++){
arr[i] = sc.nextInt();
}
int max = 0;
int ans = Integer.MIN_VALUE;
for(int i = 0; i < n; i++){
max += arr[i];
if(ans < max){
ans = max;
}
if(max < 0){
max = 0;
}
}
System.out.println(ans);
sc.close();
}
}
// O(n)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
:\Users\kapil\AppData\Roaming\Code\User\workspaceStorage\488f1c80aa24767cc84415cdcd94a7e5\redhat.java\jdt_ws\09-11-2024_d0f48ede\bin' 'No1'
7
2 3 -8 7 -1 2
8
16
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024>
Run: No16
Run: No15
Run: No14
Run: No8
Run: No1
OUTLINE
TIMELINE
JAVA PROJECTS
Java: Ready
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Java Go Live Prettier
ENG IN
11:54
10-11-2024

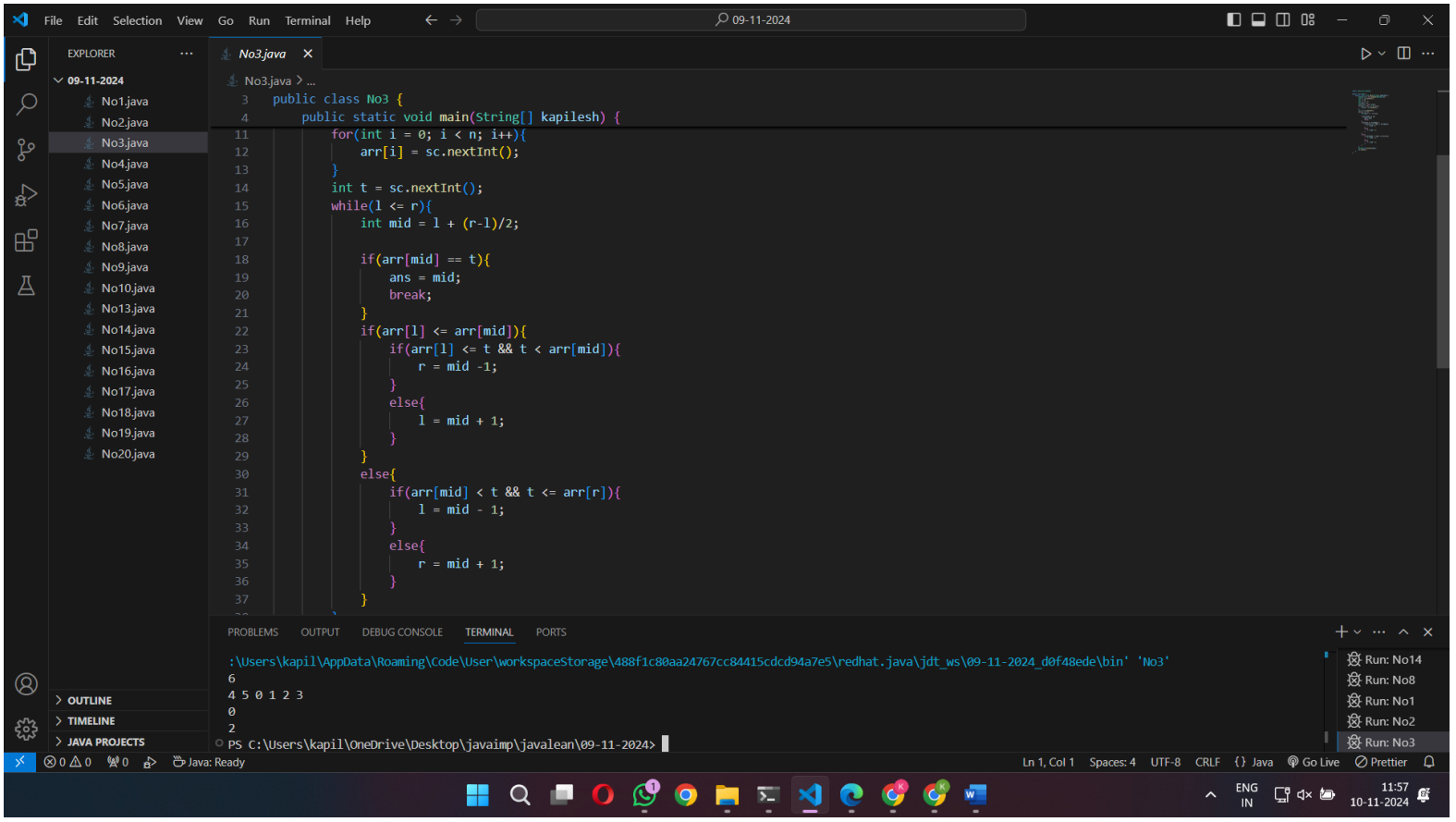
O(n)

2)


File Edit Selection View Go Run Terminal Help
09-11-2024
EXPLORER
09-11-2024
No1.java
No2.java
No3.java
No4.java
No5.java
No6.java
No7.java
No8.java
No9.java
No10.java
No13.java
No14.java
No15.java
No16.java
No17.java
No18.java
No19.java
No20.java
No2.java
import java.util.Scanner;
public class No2 {
Run | Debug
public static void main(String[] kapilesh) {
Scanner sc = new Scanner(System.in);
int n = sc.nextInt();
int[] arr = new int[n];
for(int i = 0; i < n; i++){
arr[i] = sc.nextInt();
}
int ans = Integer.MIN_VALUE;
int psum = 1;
int ssum = 1;
for(int i = 0; i < n; i++){
psum *= arr[i];
ssum *= arr[n-i-1];
if(psum == 0) psum = 1;
if(ssum == 0) ssum = 1;
ans = Math.max(ans, Math.max(psum,ssum));
}
System.out.println(ans);
sc.close();
}
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C
:\Users\kapil\AppData\Roaming\Code\User\workspaceStorage\488f1c80aa24767cc84415cdcd94a7e5\redhat.java\jdt_ws\09-11-2024_d0f48ede\bin' 'No2'
7
2 4 67 -3 -67 5 8
4309440
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024>
Run: No15
Run: No14
Run: No8
Run: No1
Run: No2
OUTLINE
TIMELINE
JAVA PROJECTS
Java: Ready
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Java Go Live Prettier
ENG IN
11:55
10-11-2024

O(n)

3)

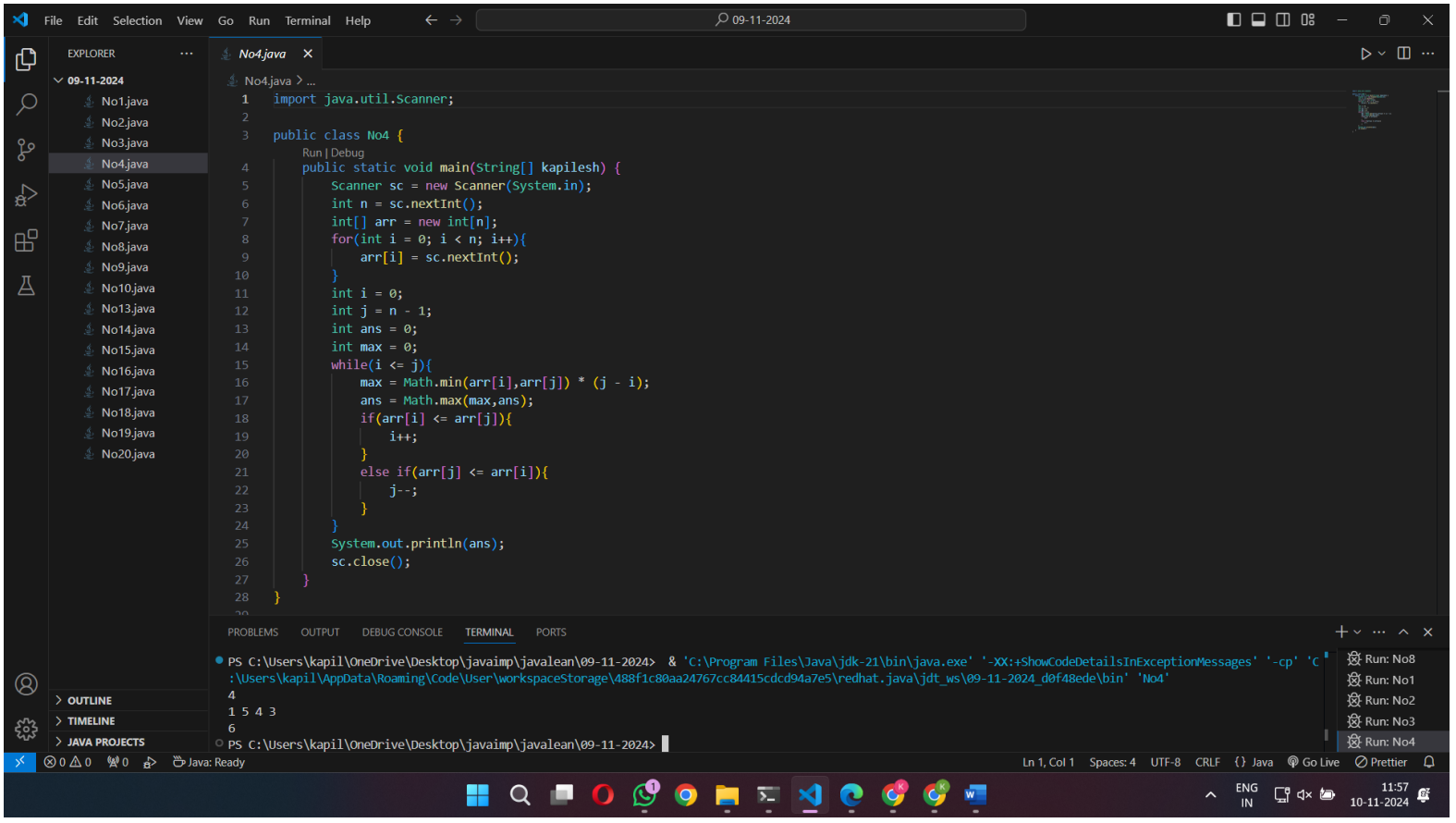


```java
public class No3 {
    public static void main(String[] kapilesh) {
        for(int i = 0; i < n; i++){
            arr[i] = sc.nextInt();
        }
        int t = sc.nextInt();
        while(l <= r){
            int mid = l + (r-l)/2;

            if(arr[mid] == t){
                ans = mid;
                break;
            }
            if(arr[l] <= arr[mid]){
                if(arr[l] <= t && t < arr[mid]){
                    r = mid -1;
                }
                else{
                    l = mid + 1;
                }
            }
            else{
                if(arr[mid] < t && t <= arr[r]){
                    l = mid - 1;
                }
                else{
                    r = mid + 1;
                }
            }
```

```
:\Users\kapil\AppData\Roaming\Code\User\workspaceStorage\488f1c80aa24767cc84415cdcd94a7e5\redhat.java\jdt_ws\09-11-2024_d0f48ede\bin' 'No3'
6
4 5 0 1 2 3
0
2
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024>
```

O(log n)

4)

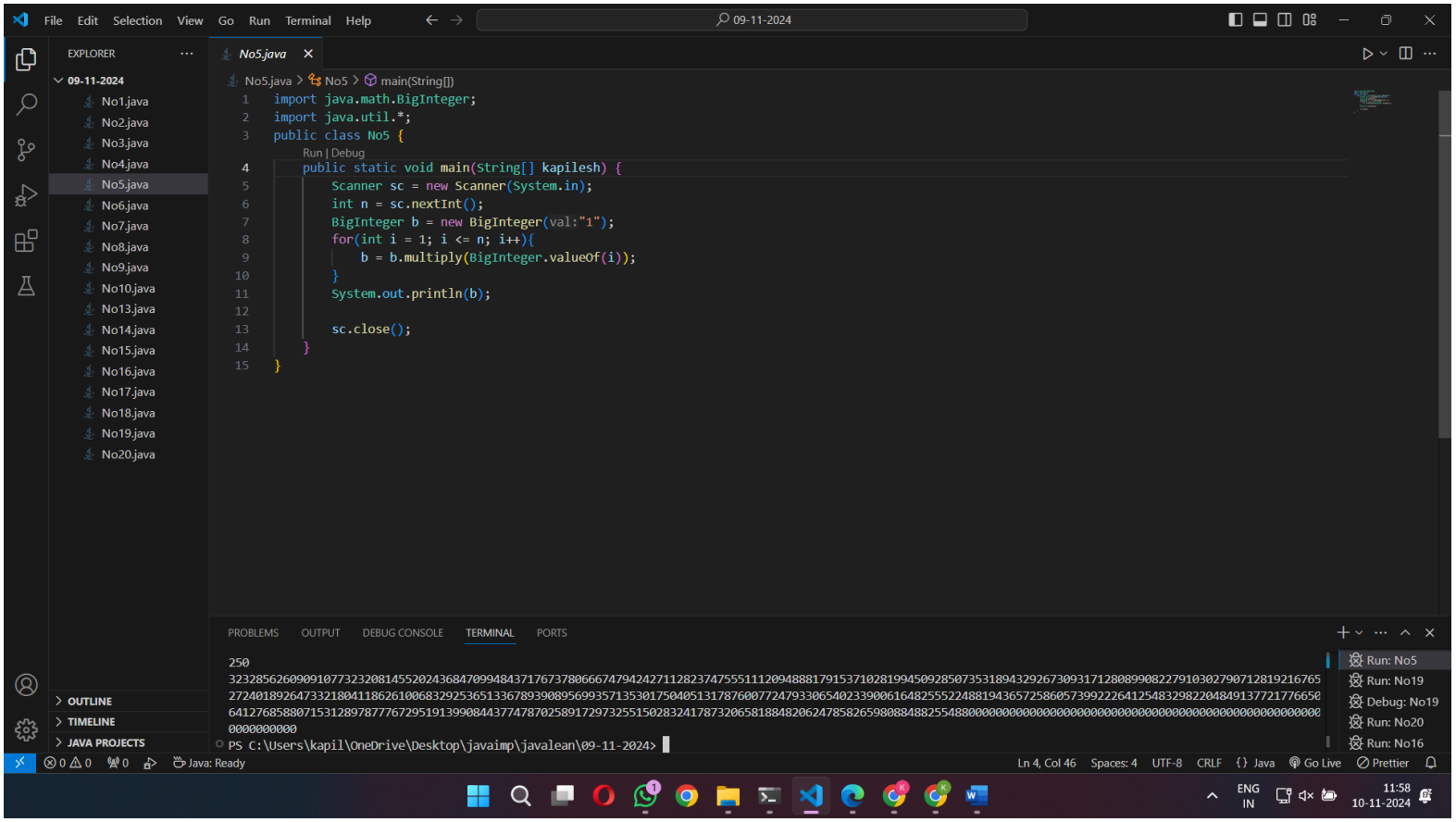


```java
import java.util.Scanner;

public class No4 {
    Run | Debug
    public static void main(String[] kapilesh) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int[] arr = new int[n];
        for(int i = 0; i < n; i++){
            arr[i] = sc.nextInt();
        }
        int i = 0;
        int j = n - 1;
        int ans = 0;
        int max = 0;
        while(i <= j){
            max = Math.min(arr[i],arr[j]) * (j - i);
            ans = Math.max(max,ans);
            if(arr[i] <= arr[j]){
                i++;
            }
            else if(arr[j] <= arr[i]){
                j--;
            }
        }
        System.out.println(ans);
        sc.close();
    }
}
```

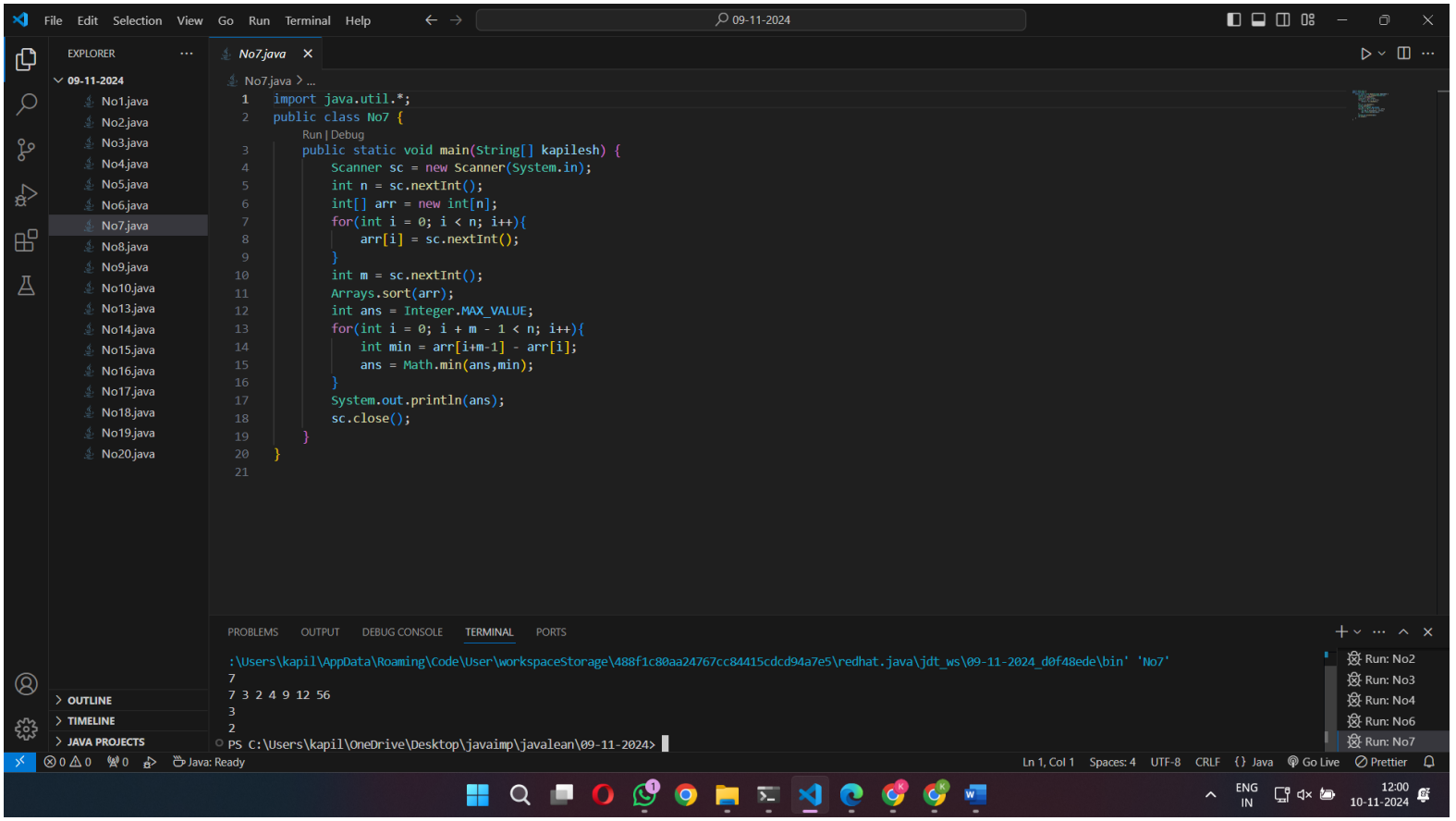
```
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C
:\Users\kapil\AppData\Roaming\Code\User\workspaceStorage\488f1c80aa24767cc84415cdcd94a7e5\redhat.java\jdt_ws\09-11-2024_d0f48ede\bin' 'No4'
4
1 5 4 3
6
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024>
```

O(n)

5)

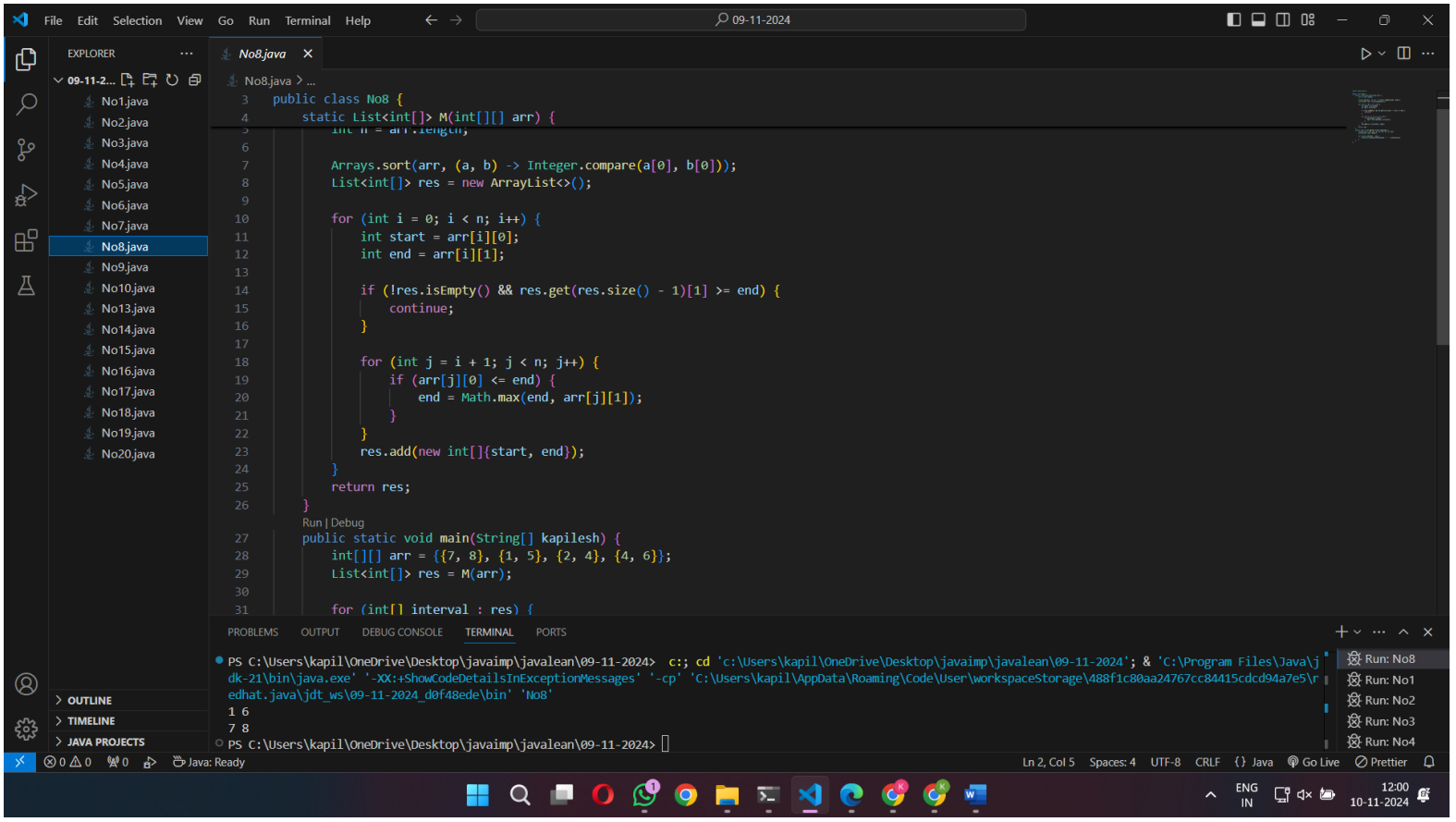

File Edit Selection View Go Run Terminal Help
09-11-2024
EXPLORER
09-11-2024
No1.java
No2.java
No3.java
No4.java
No5.java
No6.java
No7.java
No8.java
No9.java
No10.java
No13.java
No14.java
No15.java
No16.java
No17.java
No18.java
No19.java
No20.java
No5.java
No5.java > No5 > main(String[])
1 import java.math.BigInteger;
2 import java.util.*;
3 public class No5 {
Run | Debug
4 public static void main(String[] kapilesh) {
5 Scanner sc = new Scanner(System.in);
6 int n = sc.nextInt();
7 BigInteger b = new BigInteger(val:"1");
8 for(int i = 1; i <= n; i++){
9 b = b.multiply(BigInteger.valueOf(i));
10 }
11 System.out.println(b);
12
13 sc.close();
14 }
15 }
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
250
3232856260909107732320814552024368470994843717673780666747942427112823747555111209488817915371028199450928507353189432926730931712808990822791030279071281921676572401892647332180411862610068329253651336789390895699357135301750405131787600772479330654023390061648255522488194365725860573992226412548329822048491377217766560641276858807153128978777672951919909844377478702589172973255150283241787320658188482062478582659808848825548800000000000

7)



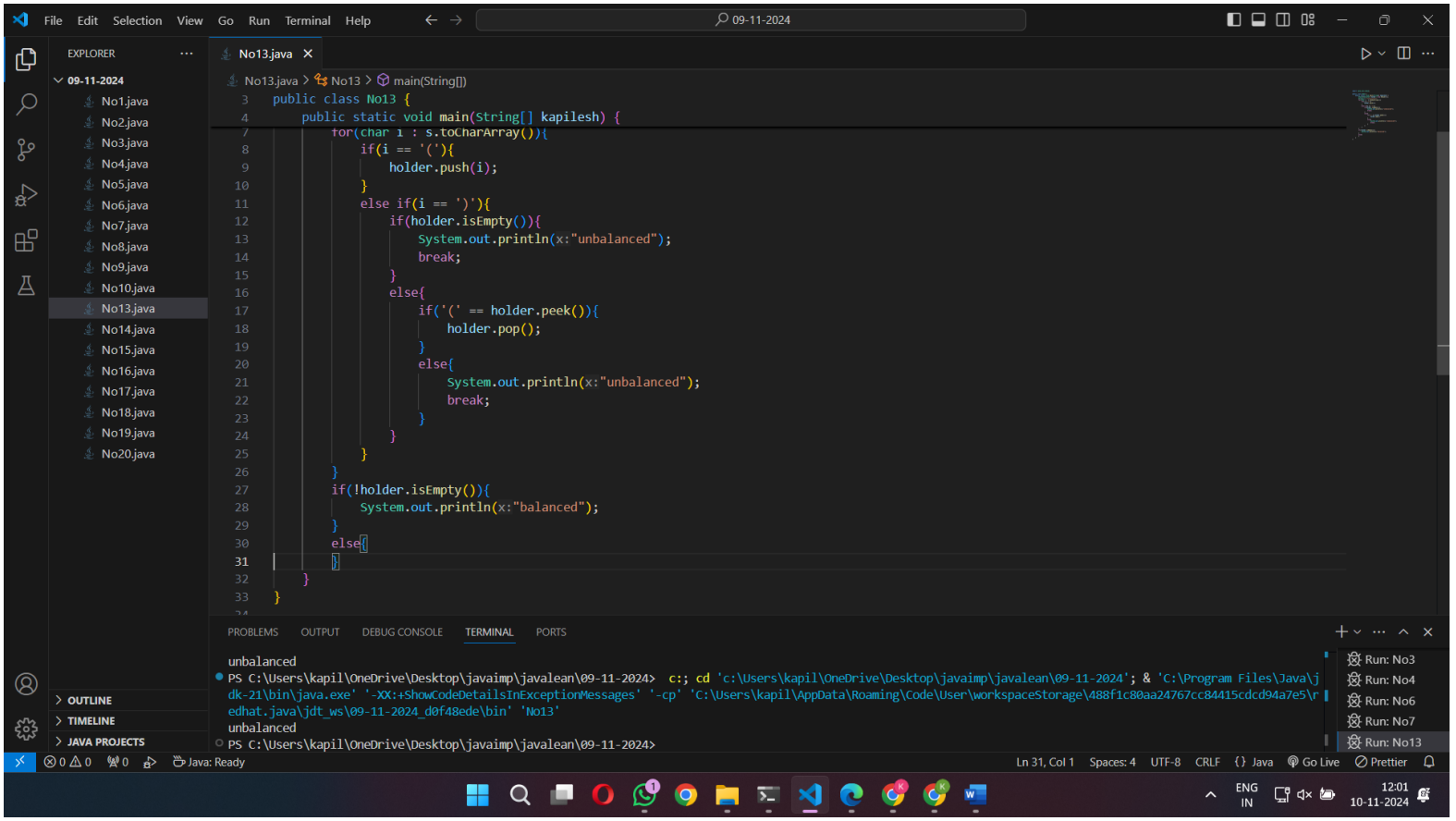
O(n logn)

8)



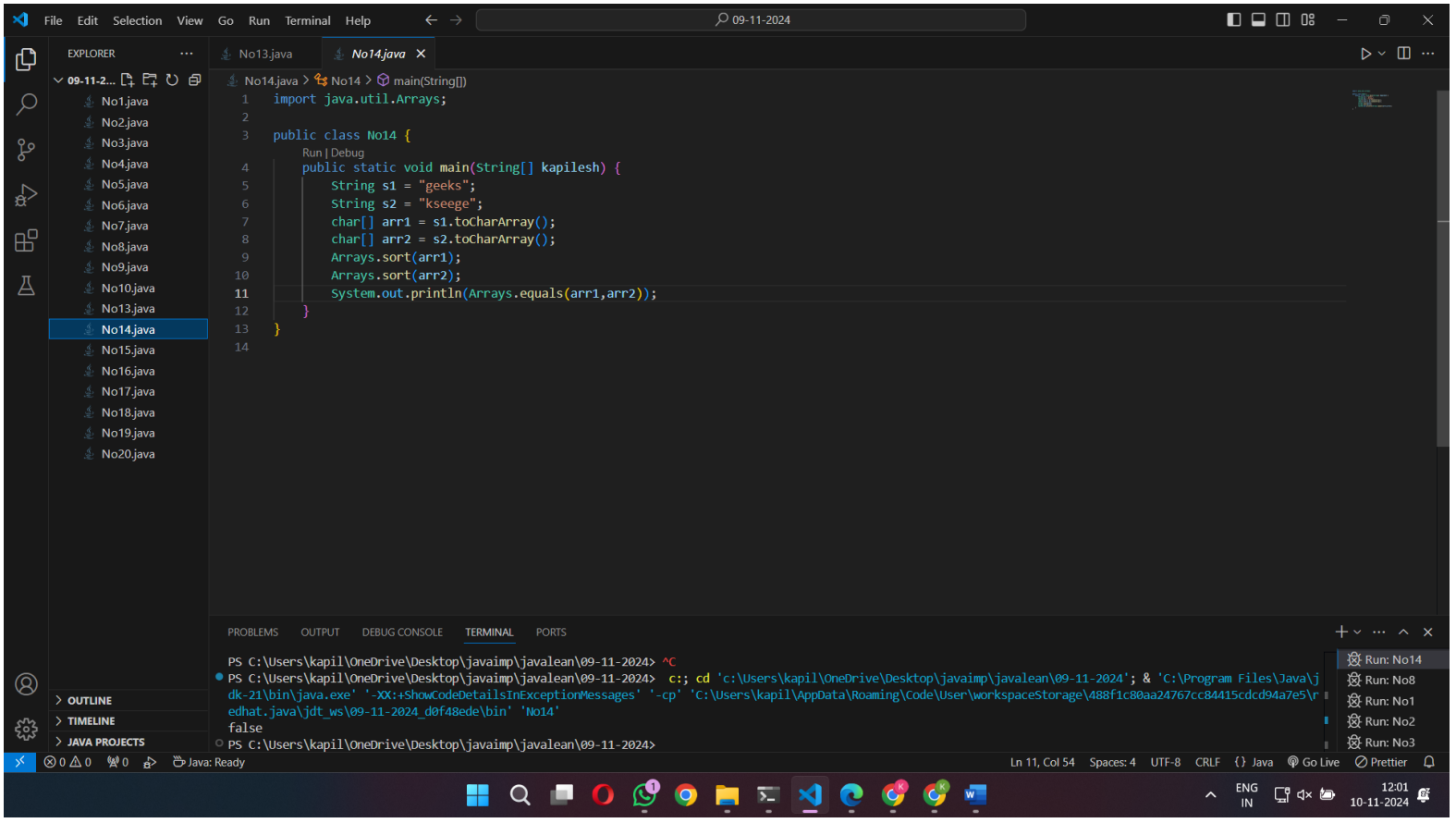
O(n logn)

13)


File Edit Selection View Go Run Terminal Help
09-11-2024
EXPLORER
09-11-2024
No1.java
No2.java
No3.java
No4.java
No5.java
No6.java
No7.java
No8.java
No9.java
No10.java
No13.java
No14.java
No15.java
No16.java
No17.java
No18.java
No19.java
No20.java
No13.java
No13.java > No13 > main(String[])
public class No13 {
public static void main(String[] kapilesh) {
for(char i : s.toCharArray()){
if(i == '('){
holder.push(i);
}
else if(i == ')'){
if(holder.isEmpty()){
System.out.println(x:"unbalanced");
break;
}
else{
if('(' == holder.peek()){
holder.pop();
}
else{
System.out.println(x:"unbalanced");
break;
}
}
}
}
if(!holder.isEmpty()){
System.out.println(x:"balanced");
}
else{
}
}
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
unbalanced
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024> c:; cd 'c:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024'; & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\kapil\AppData\Roaming\Code\User\workspaceStorage\488f1c80aa24767cc84415cdcd94a7e5\redhat.java\jdt_ws\09-11-2024_d0f48ede\bin' 'No13'
unbalanced
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024>
Run: No3
Run: No4
Run: No6
Run: No7
Run: No13
OUTLINE
TIMELINE
JAVA PROJECTS
Java: Ready
Ln 31, Col 1 Spaces: 4 UTF-8 CRLF Java Go Live Prettier
ENG IN
12:01 10-11-2024

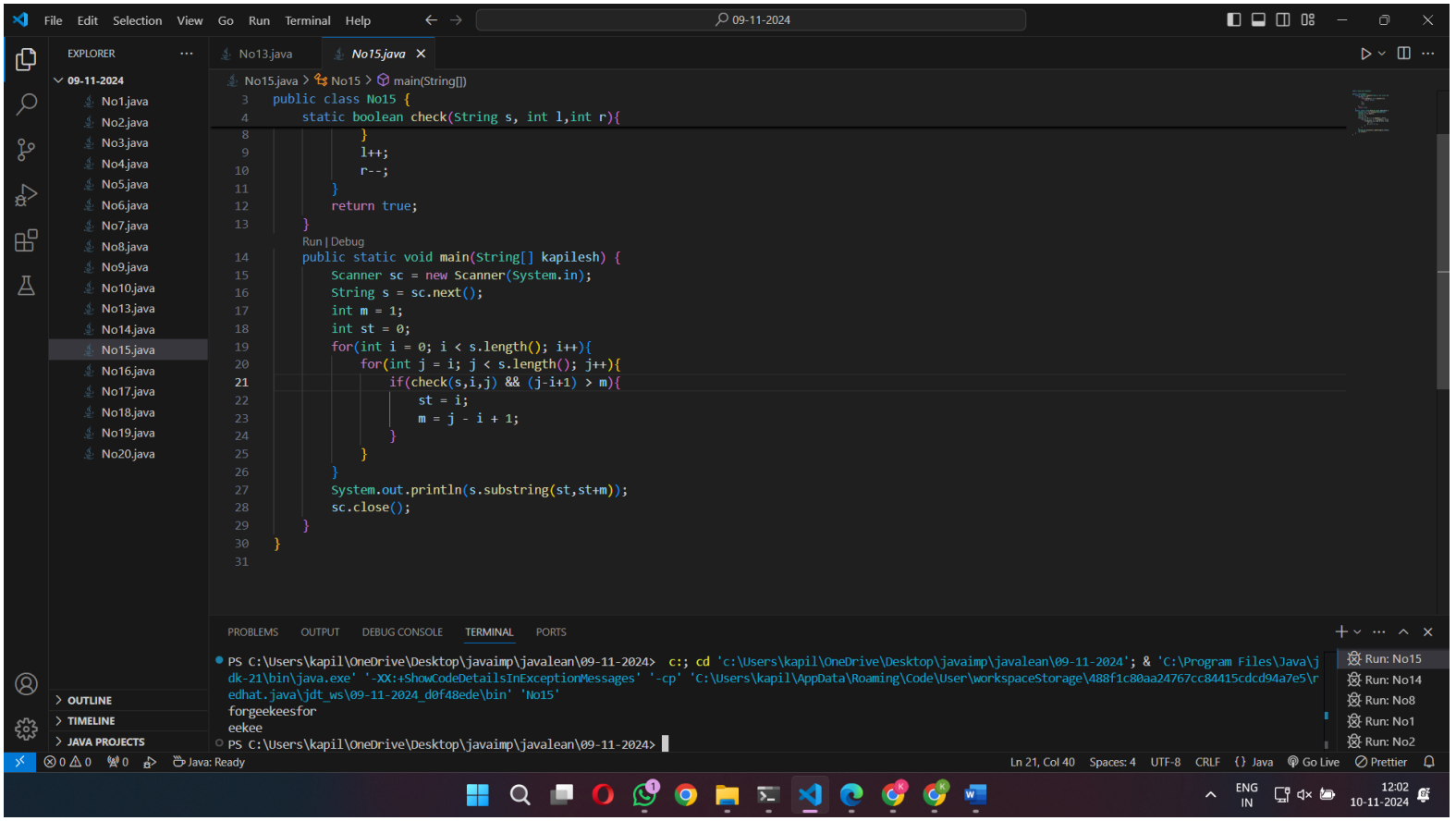
O(n)

14)


File Edit Selection View Go Run Terminal Help
09-11-2024
EXPLORER
No13.java
No14.java
No14.java > No14 > main(String[])
import java.util.Arrays;
public class No14 {
Run | Debug
public static void main(String[] kapilesh) {
String s1 = "geeks";
String s2 = "kseege";
char[] arr1 = s1.toCharArray();
char[] arr2 = s2.toCharArray();
Arrays.sort(arr1);
Arrays.sort(arr2);
System.out.println(Arrays.equals(arr1,arr2));
}
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024> ^C
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024> c:; cd 'c:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024'; & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\kapil\AppData\Roaming\Code\User\workspaceStorage\488f1c80aa24767cc84415cdcd94a7e5\redhat.java\jdt_ws\09-11-2024_d0f48ede\bin' 'No14'
false
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024>
Run: No14
Run: No8
Run: No1
Run: No2
Run: No3
Java: Ready
Ln 11, Col 54 Spaces: 4 UTF-8 CRLF Java Go Live Prettier
ENG IN
12:01 10-11-2024

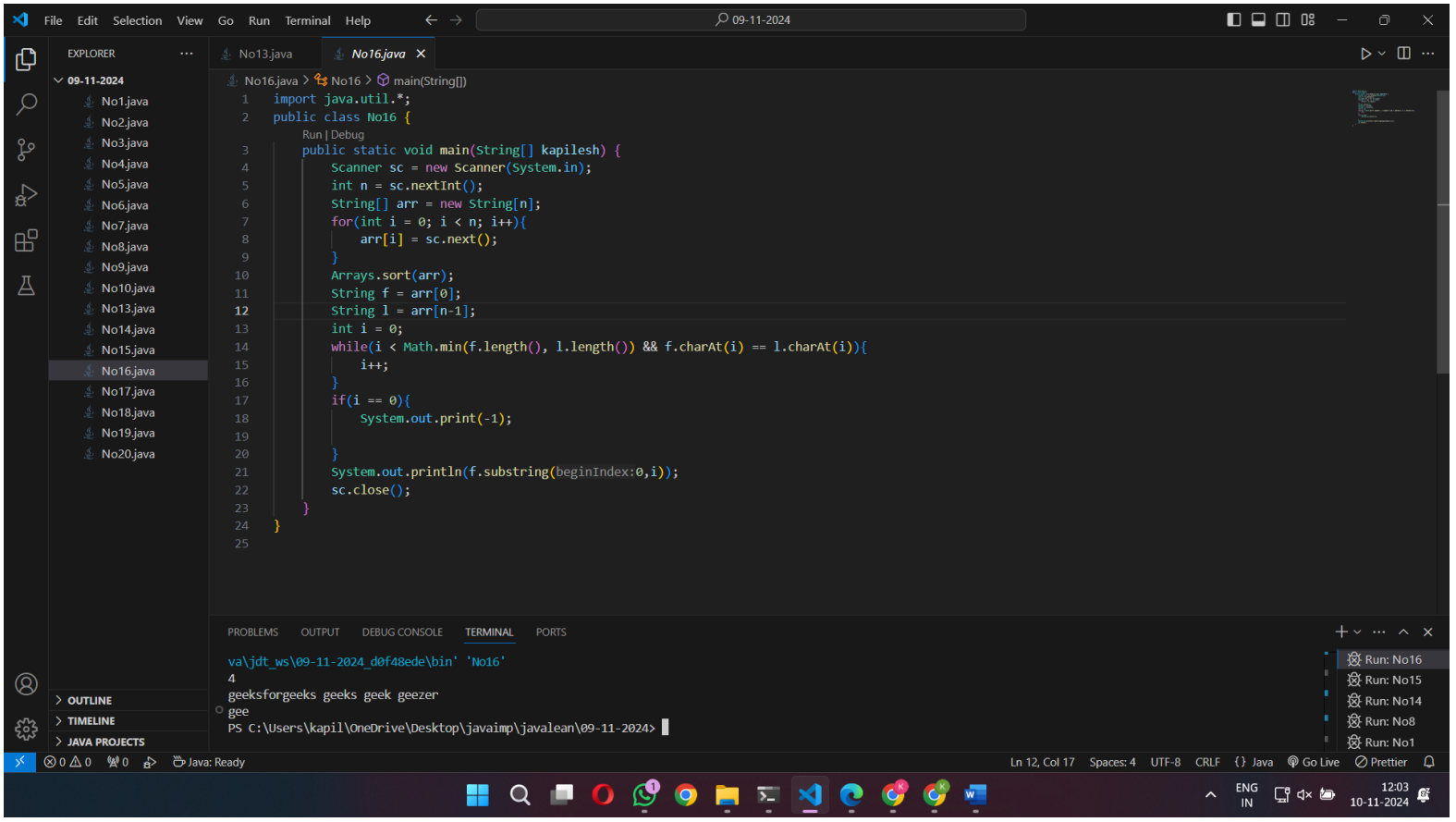
O(n)

15)



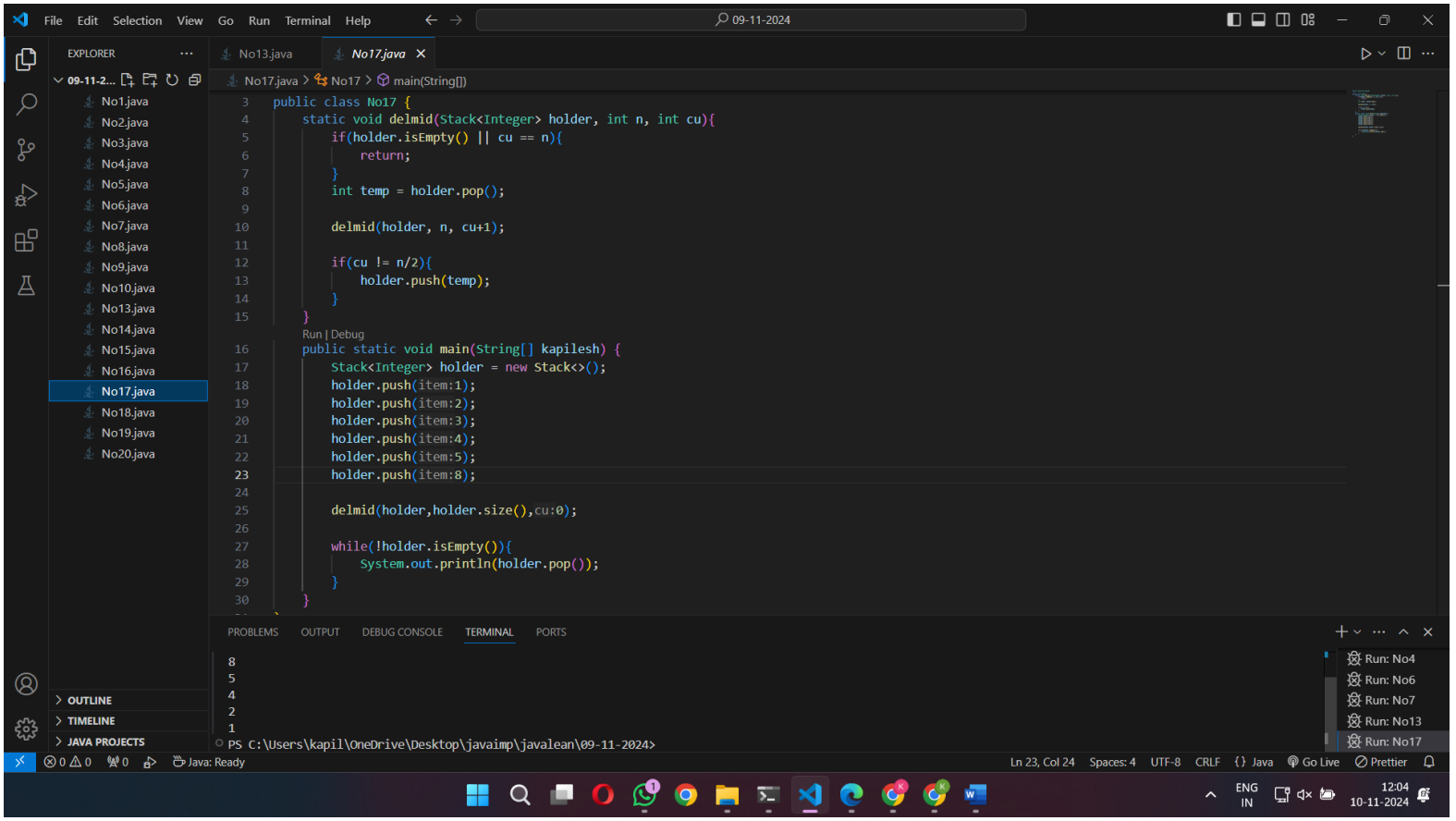
O(n ^2)

16)



O(n log n + n*m)

17)

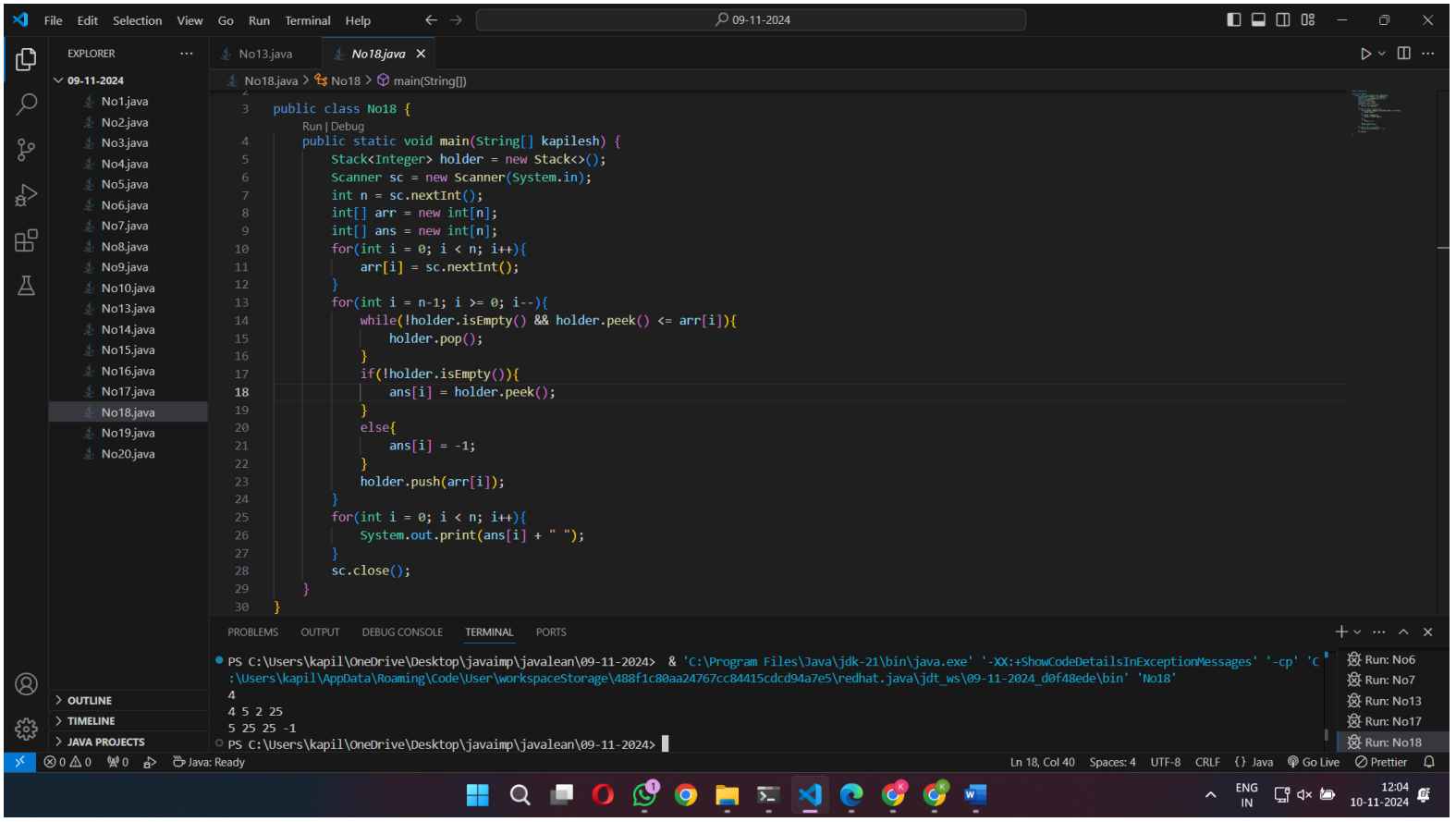


```java
public class No17 {
    static void delmid(Stack<Integer> holder, int n, int cu){
        if(holder.isEmpty() || cu == n){
            return;
        }
        int temp = holder.pop();

        delmid(holder, n, cu+1);

        if(cu != n/2){
            holder.push(temp);
        }
    }
    Run | Debug
    public static void main(String[] kapilesh) {
        Stack<Integer> holder = new Stack<>();
        holder.push(item:1);
        holder.push(item:2);
        holder.push(item:3);
        holder.push(item:4);
        holder.push(item:5);
        holder.push(item:8);

        delmid(holder,holder.size(),cu:0);

        while(!holder.isEmpty()){
            System.out.println(holder.pop());
        }
    }
}
```

```
8
5
4
2
1
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024>
```

O(n)

18)

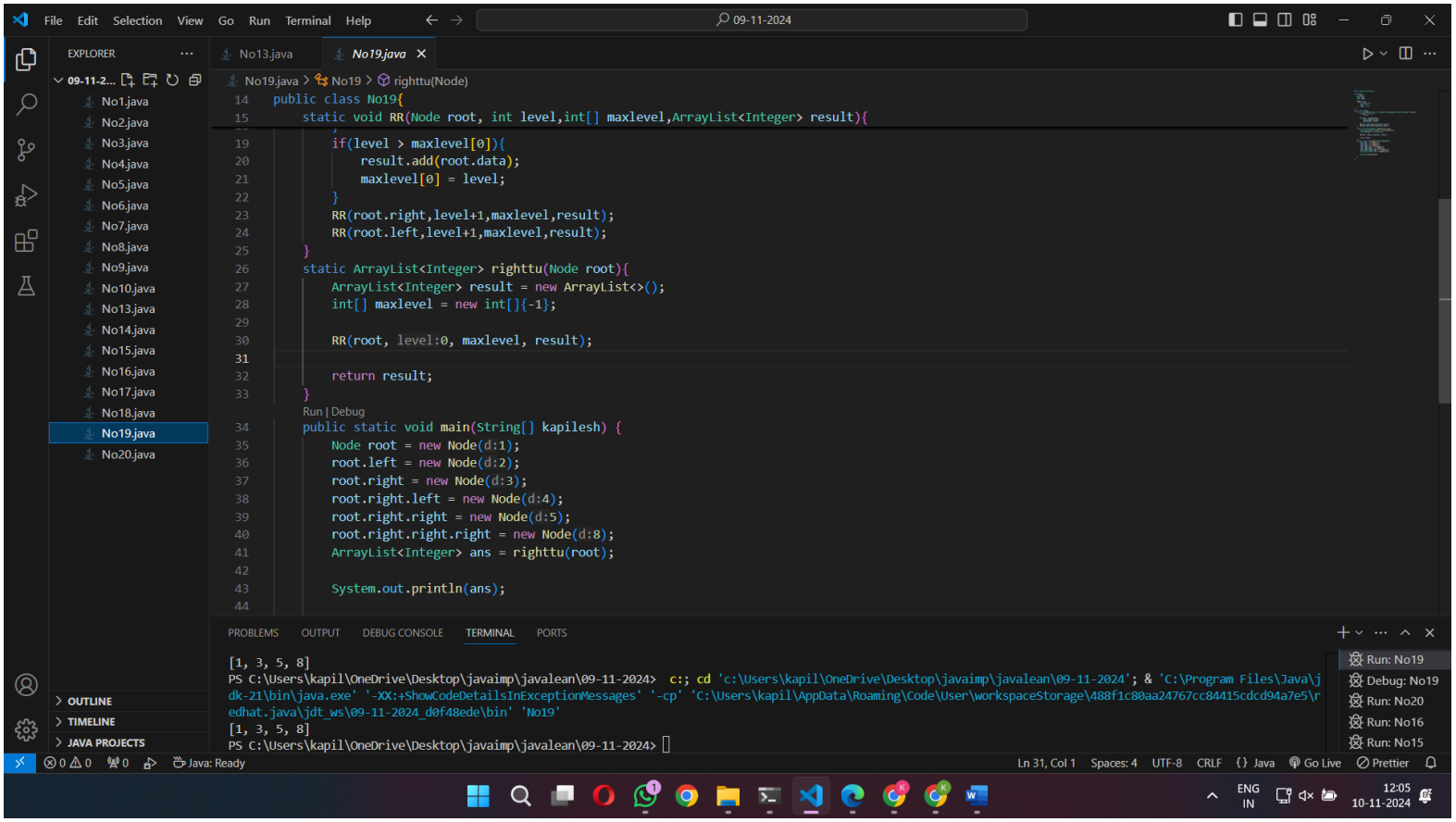


```java
public class No18 {
    Run | Debug
    public static void main(String[] kapilesh) {
        Stack<Integer> holder = new Stack<>();
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int[] arr = new int[n];
        int[] ans = new int[n];
        for(int i = 0; i < n; i++){
            arr[i] = sc.nextInt();
        }
        for(int i = n-1; i >= 0; i--){
            while(!holder.isEmpty() && holder.peek() <= arr[i]){
                holder.pop();
            }
            if(!holder.isEmpty()){
                ans[i] = holder.peek();
            }
            else{
                ans[i] = -1;
            }
            holder.push(arr[i]);
        }
        for(int i = 0; i < n; i++){
            System.out.print(ans[i] + " ");
        }
        sc.close();
    }
}
```

```
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024> & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C
:\Users\kapil\AppData\Roaming\Code\User\workspaceStorage\488f1c80aa24767cc84415cdcd94a7e5\redhat.java\jdt_ws\09-11-2024_d0f48ede\bin' 'No18'
4
4 5 2 25
5 25 25 -1
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024>
```

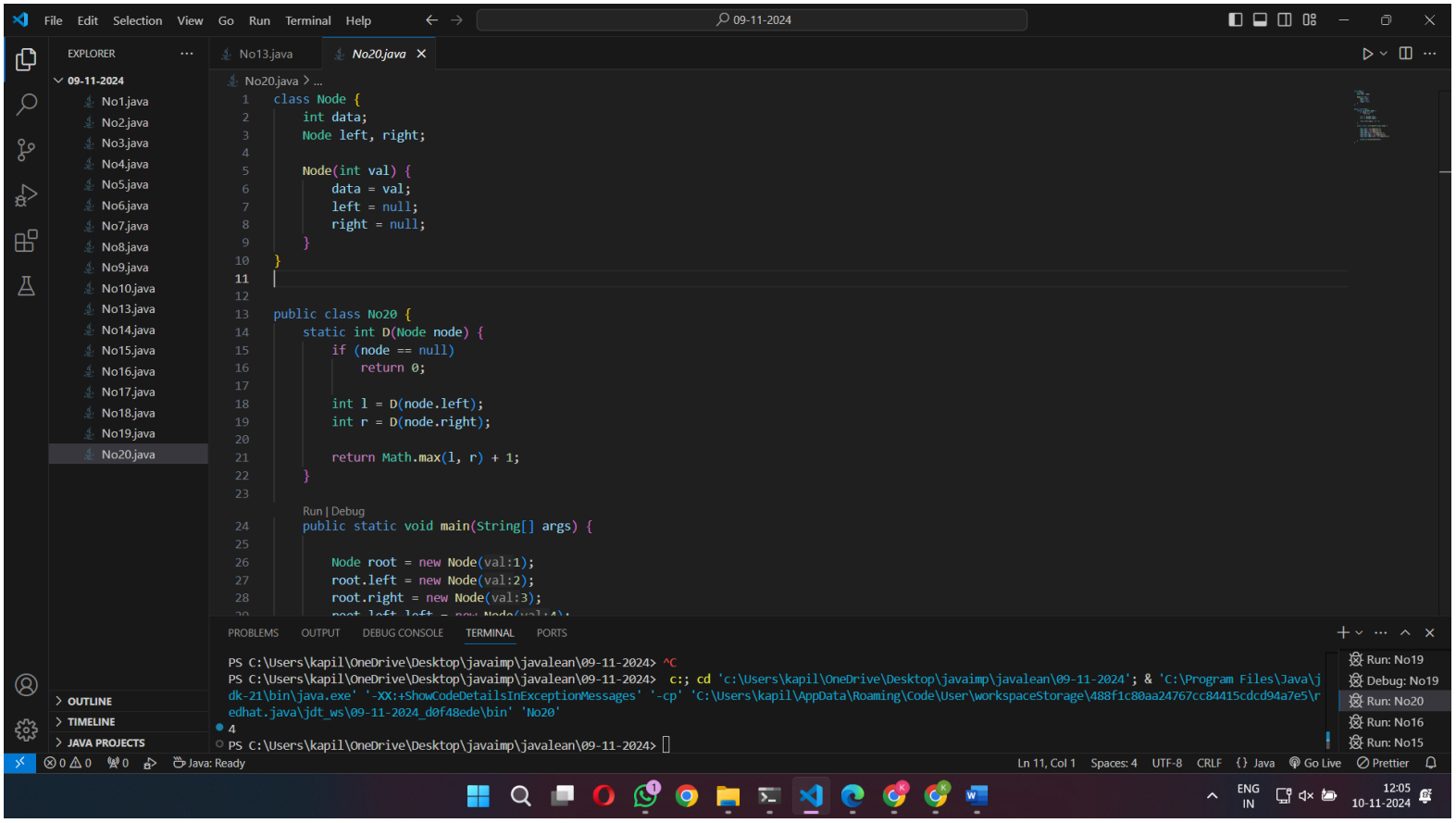
O(n)

19)


File Edit Selection View Go Run Terminal Help
09-11-2024
EXPLORER
09-11-2...
No1.java
No2.java
No3.java
No4.java
No5.java
No6.java
No7.java
No8.java
No9.java
No10.java
No13.java
No14.java
No15.java
No16.java
No17.java
No18.java
No19.java
No20.java
No13.java
No19.java
No19.java > No19 > righttu(Node)
14 public class No19{
15 static void RR(Node root, int level,int[] maxlevel,ArrayList<Integer> result){
19 if(level > maxlevel[0]){
20 result.add(root.data);
21 maxlevel[0] = level;
22 }
23 RR(root.right,level+1,maxlevel,result);
24 RR(root.left,level+1,maxlevel,result);
25 }
26 static ArrayList<Integer> righttu(Node root){
27 ArrayList<Integer> result = new ArrayList<>();
28 int[] maxlevel = new int[]{-1};
29
30 RR(root, level:0, maxlevel, result);
31
32 return result;
33 }
Run | Debug
34 public static void main(String[] kapilesh) {
35 Node root = new Node(d:1);
36 root.left = new Node(d:2);
37 root.right = new Node(d:3);
38 root.right.left = new Node(d:4);
39 root.right.right = new Node(d:5);
40 root.right.right.right = new Node(d:8);
41 ArrayList<Integer> ans = righttu(root);
42
43 System.out.println(ans);
44
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
[1, 3, 5, 8]
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024> c:; cd 'c:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024'; & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\kapil\AppData\Roaming\Code\User\workspaceStorage\488f1c80aa24767cc84415cdcd94a7e5\redhat.java\jdt_ws\09-11-2024_d0f48ede\bin' 'No19'
[1, 3, 5, 8]
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024>
Run: No19
Debug: No19
Run: No20
Run: No16
Run: No15
OUTLINE
TIMELINE
JAVA PROJECTS
Java: Ready
Ln 31, Col 1 Spaces: 4 UTF-8 CRLF Java Go Live Prettier
ENG IN
12:05 10-11-2024

O(n)

20)


File Edit Selection View Go Run Terminal Help
09-11-2024
EXPLORER
09-11-2024
No1.java
No2.java
No3.java
No4.java
No5.java
No6.java
No7.java
No8.java
No9.java
No10.java
No13.java
No14.java
No15.java
No16.java
No17.java
No18.java
No19.java
No20.java
No13.java
No20.java
No20.java > ...
1 class Node {
2 int data;
3 Node left, right;
4
5 Node(int val) {
6 data = val;
7 left = null;
8 right = null;
9 }
10 }
11
12
13 public class No20 {
14 static int D(Node node) {
15 if (node == null)
16 return 0;
17
18 int l = D(node.left);
19 int r = D(node.right);
20
21 return Math.max(l, r) + 1;
22 }
23
Run | Debug
24 public static void main(String[] args) {
25
26 Node root = new Node(val:1);
27 root.left = new Node(val:2);
28 root.right = new Node(val:3);
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024> ^C
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024> c:; cd 'c:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024'; & 'C:\Program Files\Java\jdk-21\bin\java.exe' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\kapil\AppData\Roaming\Code\User\workspaceStorage\488f1c80aa24767cc84415cdcd94a7e5\redhat.java\jdt_ws\09-11-2024_d0f48ede\bin' 'No20'
4
PS C:\Users\kapil\OneDrive\Desktop\javaimp\javalean\09-11-2024>
Run: No19
Debug: No19
Run: No20
Run: No16
Run: No15
OUTLINE
TIMELINE
JAVA PROJECTS
Java: Ready
Ln 11, Col 1 Spaces: 4 UTF-8 CRLF Java Go Live Prettier
ENG IN
12:05 10-11-2024

O(n)