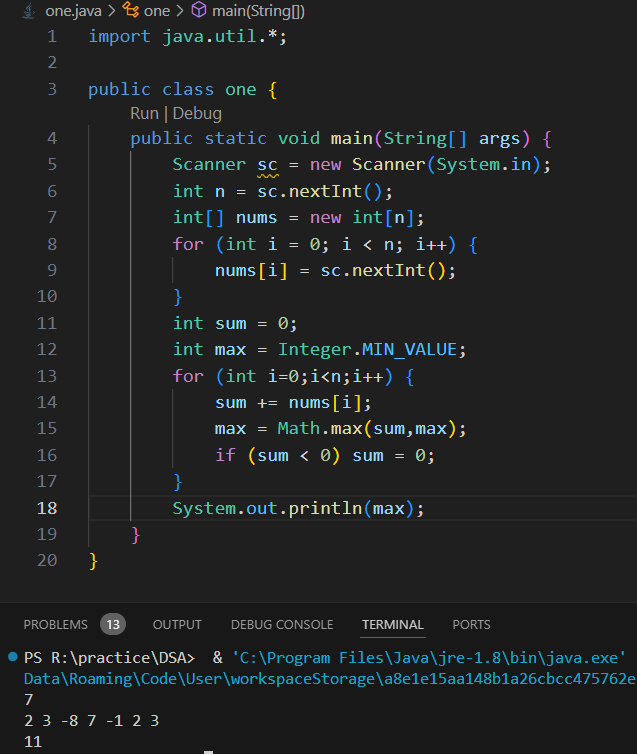
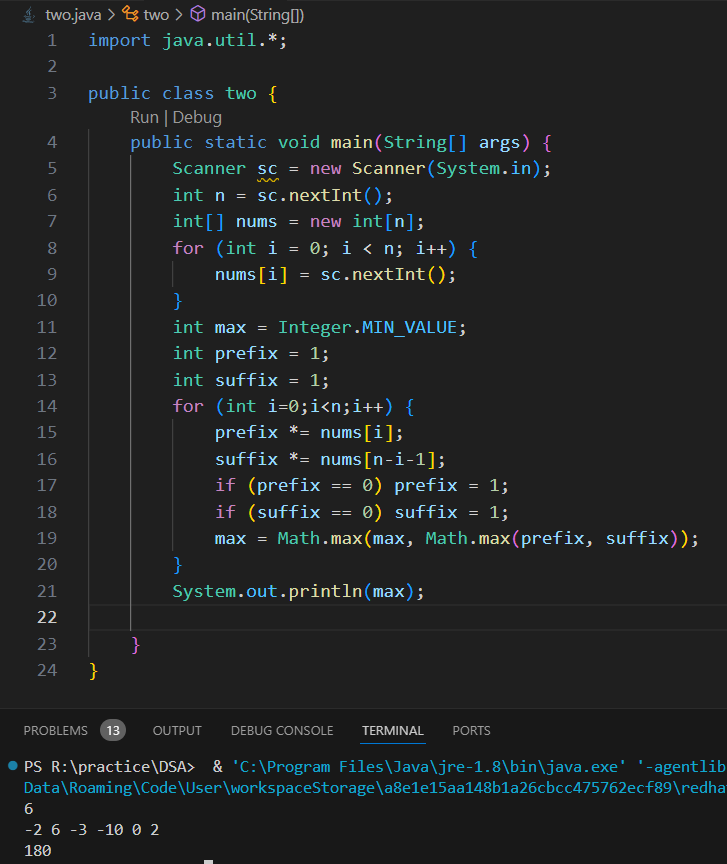
1.



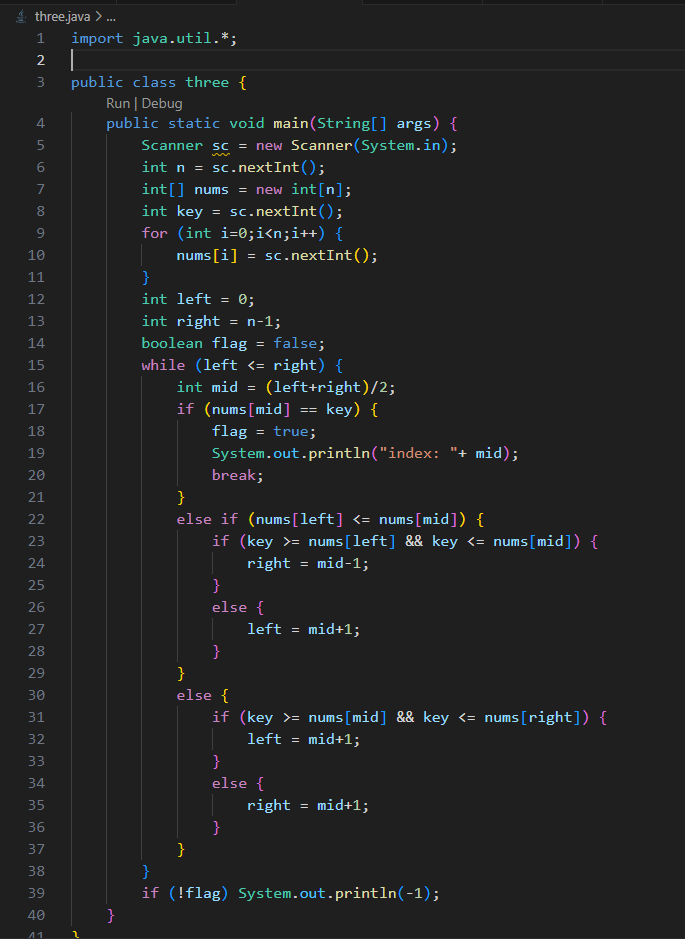
Time Complexity: O(n)

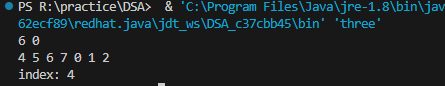
2.



Time Complexity: O(n)

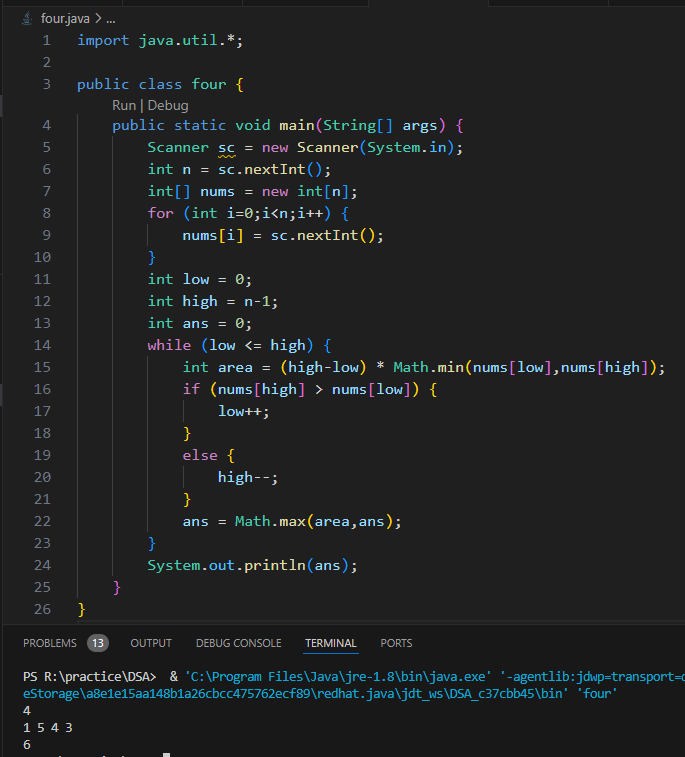
3.



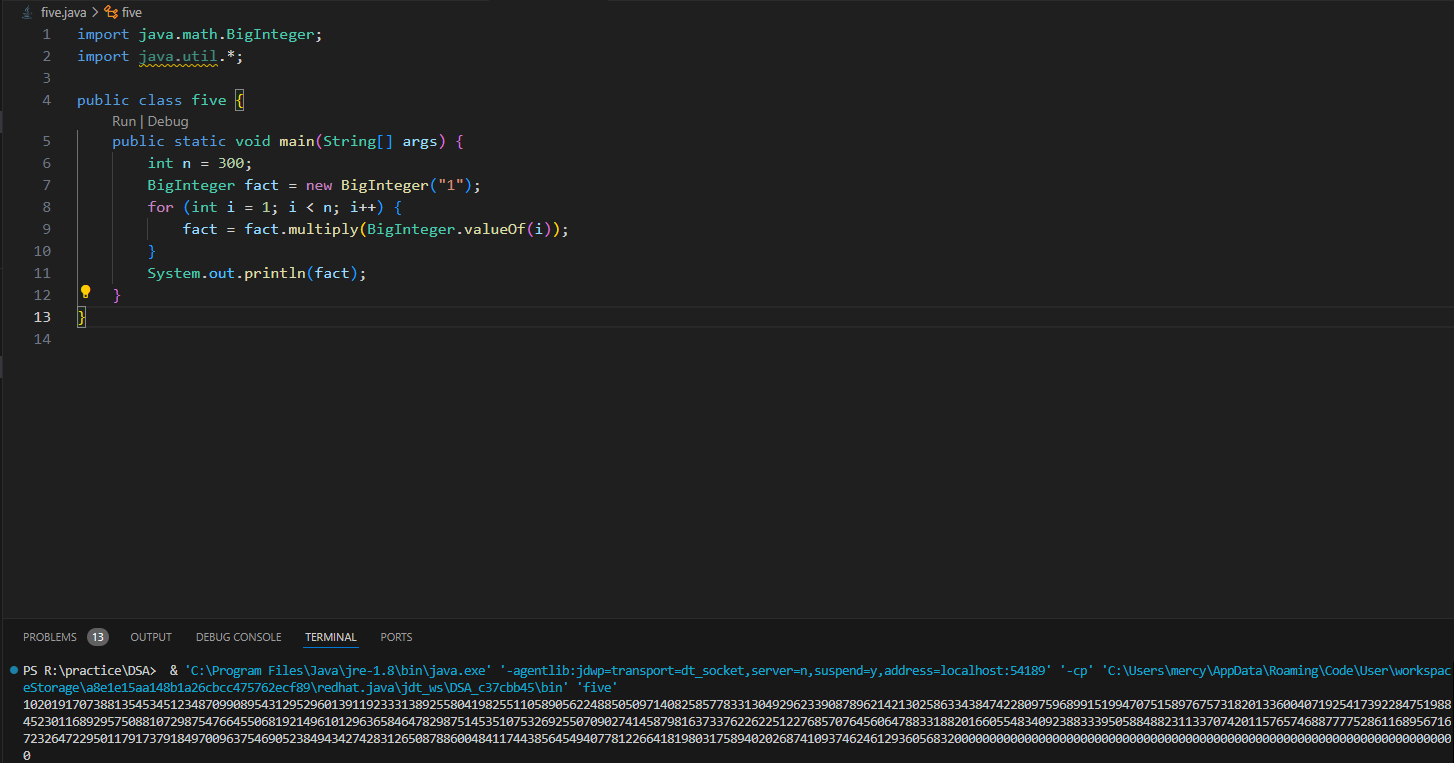


Time Complexity: O(log n)

4.



Time Complexity: O(n)

5.

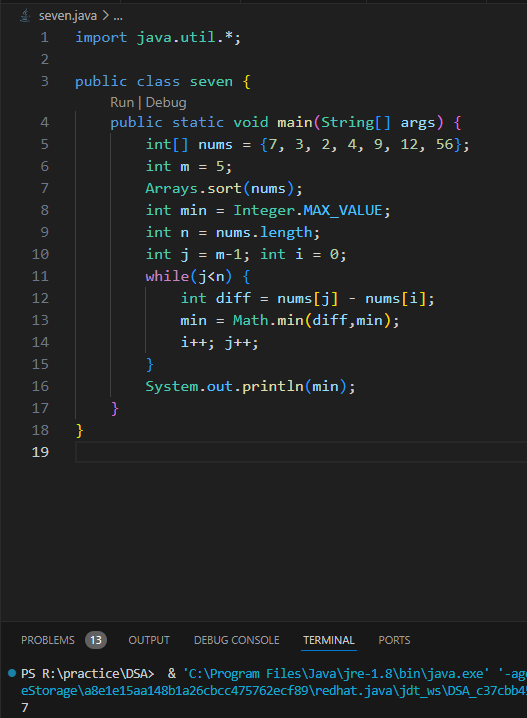
Time Complexity: O(n)

6.

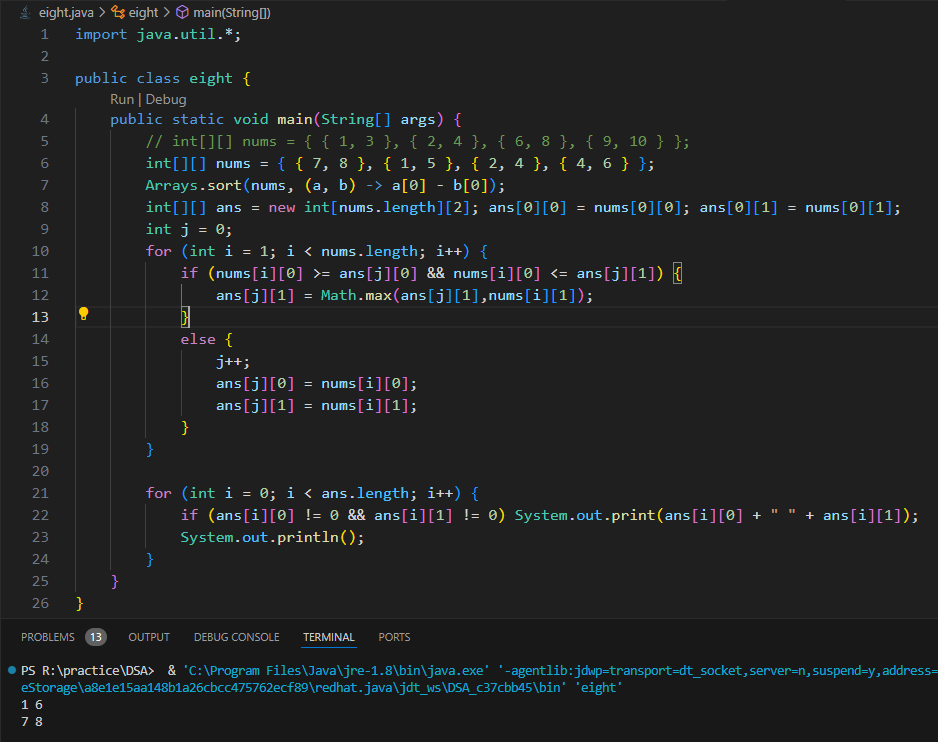


Time Complexity: O(n)

7.

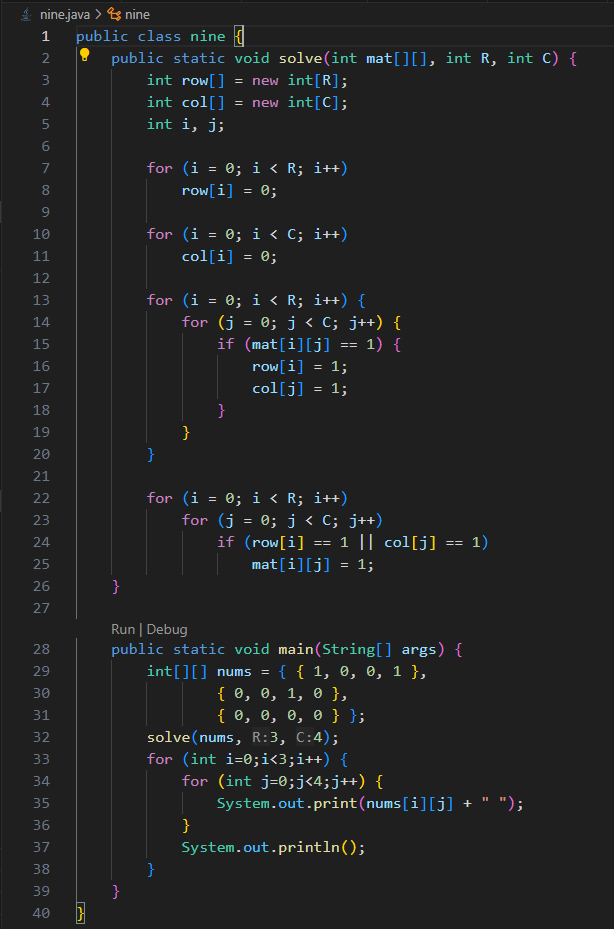


Time Complexity: O(n logn)

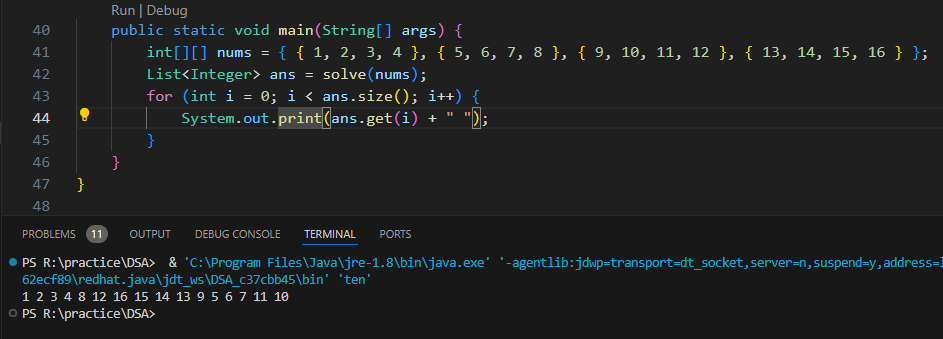
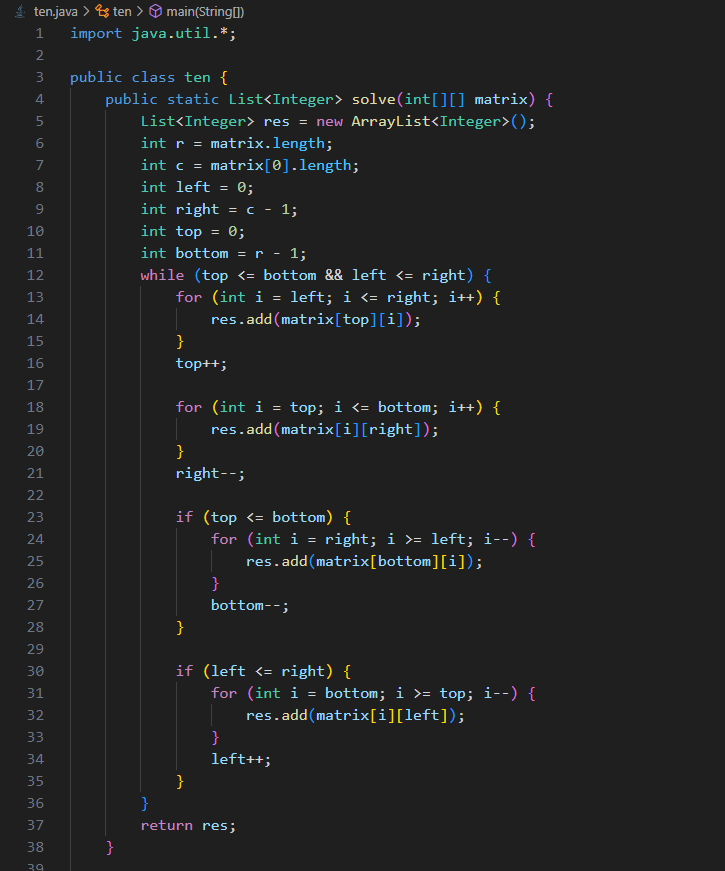
8.

Time Complexity: O(n logn)

9.

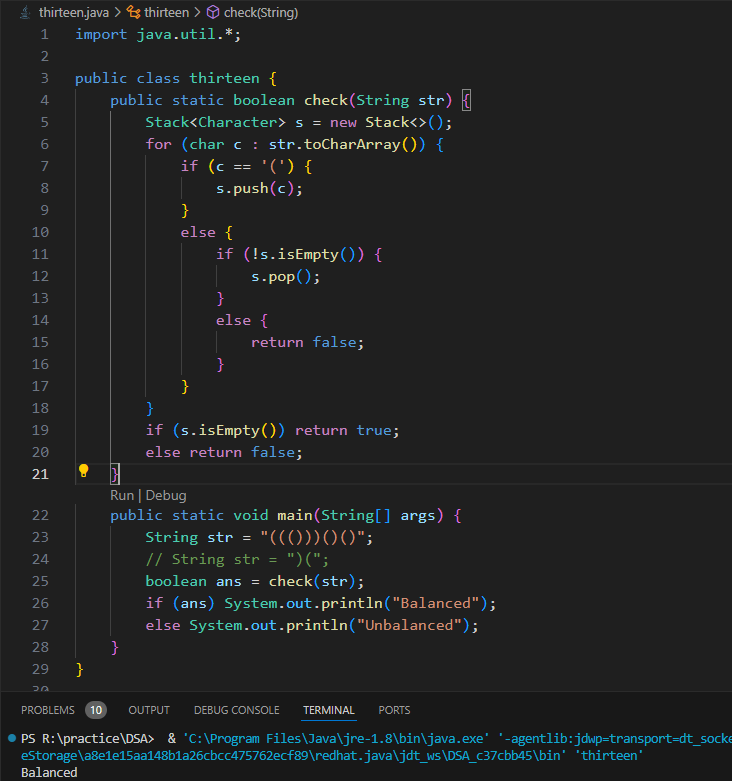


Time complexity: O(R \* C)

10.

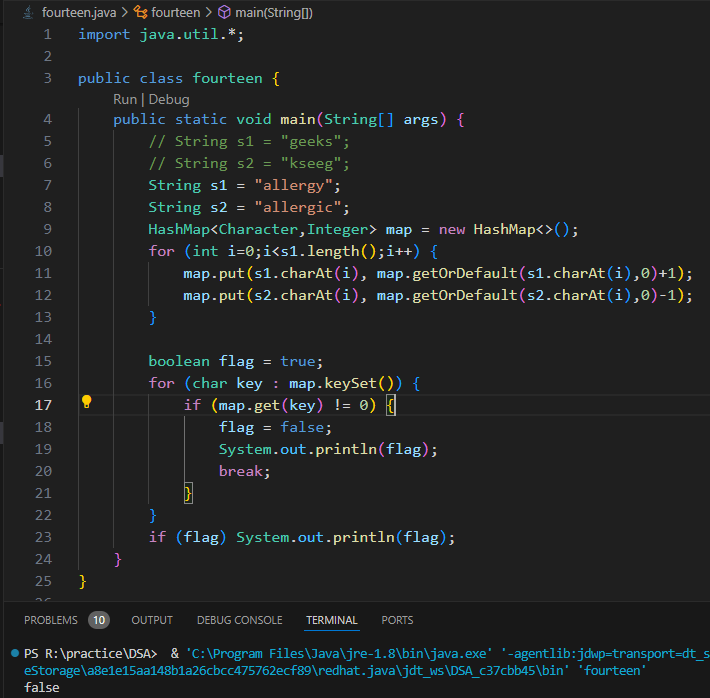
Time complexity: O(r \* c)

13.



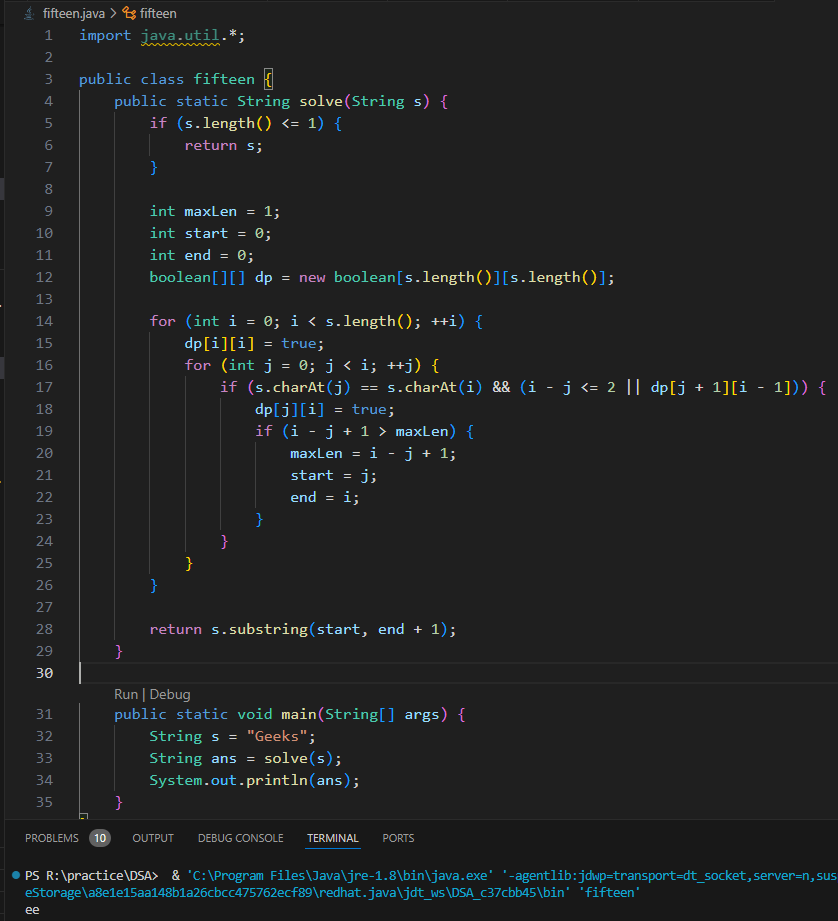
Time complexity: O(n)

14.



Time complexity: O(n)

15.



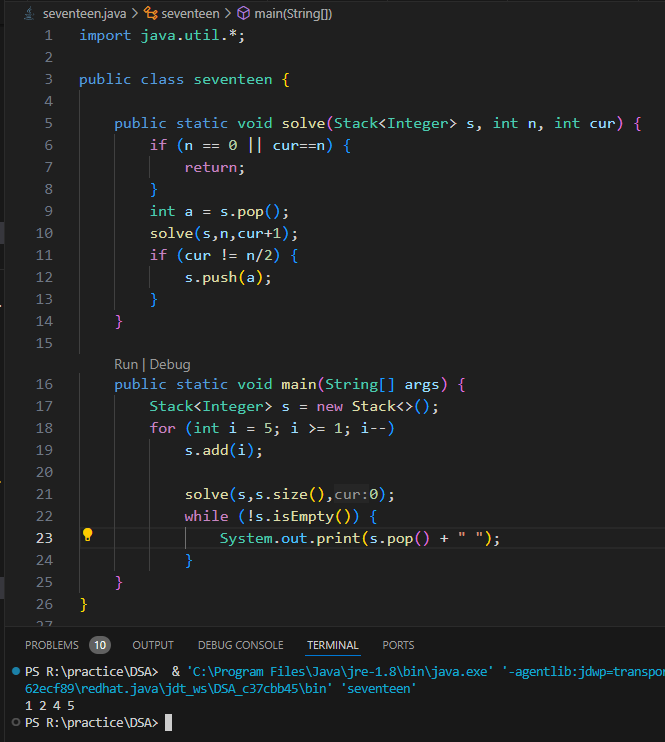
Time Complexity: O(N^2)

16.



Time Complexity: O(n log n + n\*m)

17.



Time complexity: O(n)

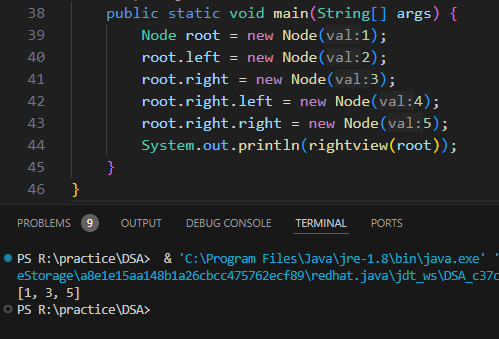
18.



Time complexity: O(n)

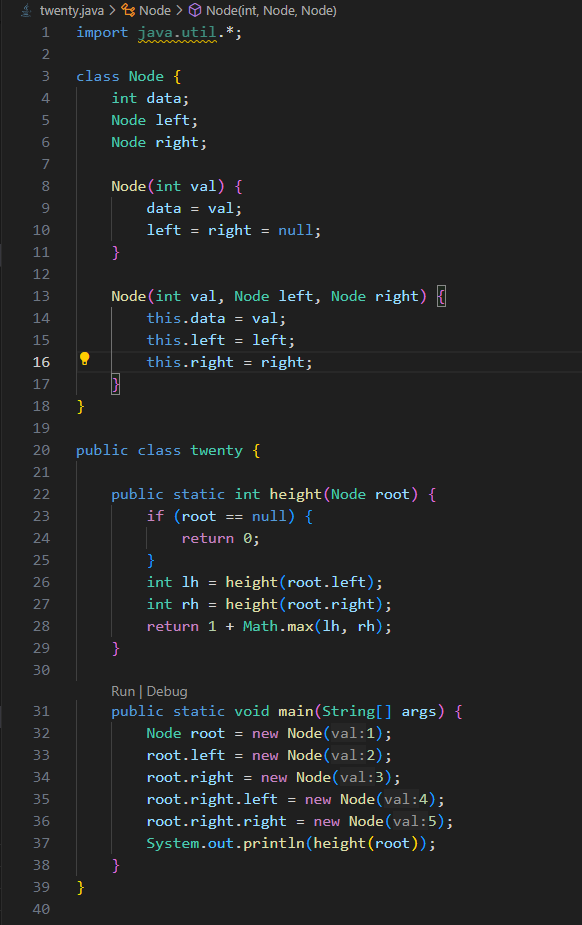
19.





Time complexity: O(n)

20.



Time complexity: O(n)