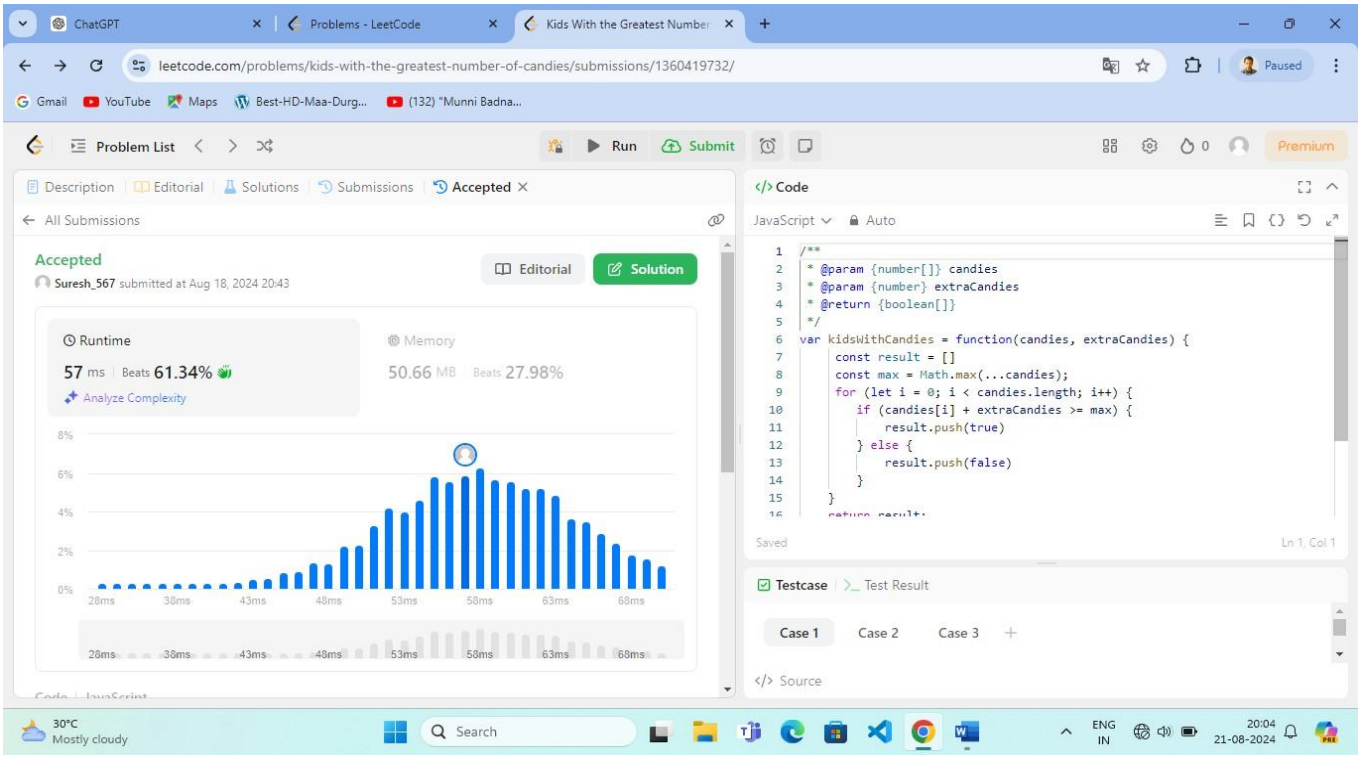
Question No. 1431 :- https://leetcode.com/problems/kids-with-thegreatest-number-of-candies/description/

Solution Link :- https://leetcode.com/problems/kids-with-thegreatest-number-of-candies/submissions/1363565070/

Time Complexity :- O(n)

Space Complexity :- O(n)

Screenshot :-



Description :-

Time Complexity :- O(n)

Finding the max value with Math.max(...candies) takes O(n).

The loop through the candies array also takes O(n).

Total: O(n) + O(n) = O(n).

Space Complexity :- O(n)

Space required for result array is O(n) ,where n is length of candies array.

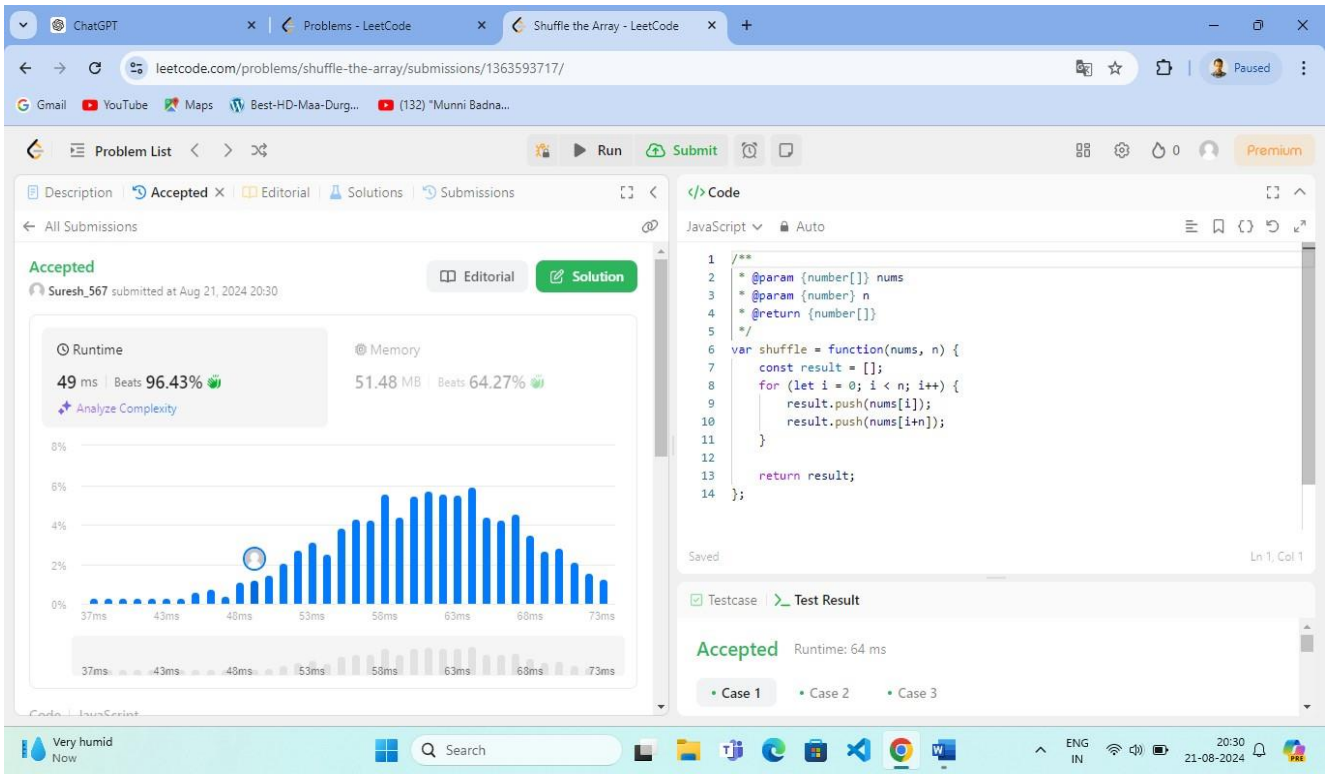
Question No. 1470 :- https://leetcode.com/problems/shuffle-thearray/description/

Solution Link :- https://leetcode.com/problems/shuffle-thearray/submissions/1363593717/

Time Complexity :- O(n)

Space Complexity :- O(n)

Screenshot :-



Description :-

Time Complexity :- O(n)

The loop runs n times, and in each iteration, two elements are pushed into the result array. This results in an overall time complexity of O(n).

Space Complexity :- O(n)

The result array will hold 2n elements, where n is half the size of nums.

The space complexity is O(n).

Question No. 1512 :-

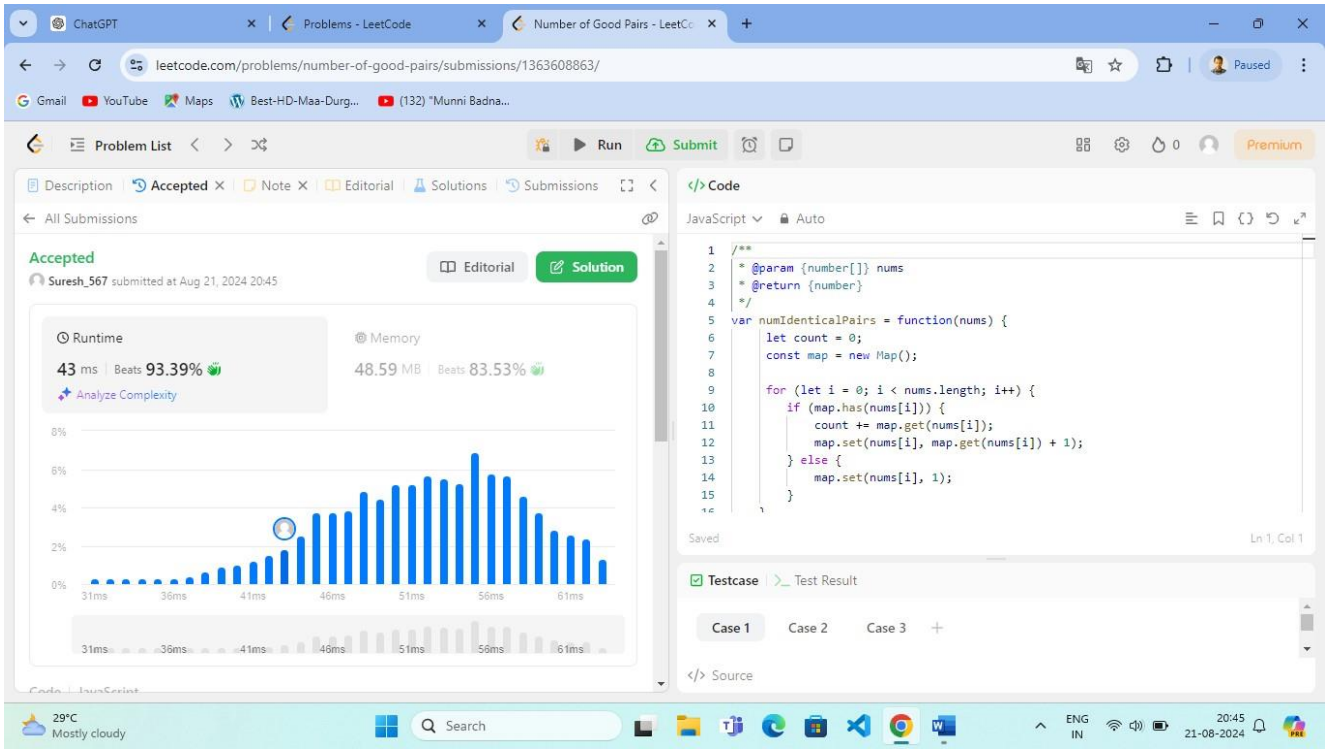
https://leetcode.com/problems/number-of-goodpairs/description/

Solution Link :- https://leetcode.com/problems/number-of-goodpairs/submissions/1363608863/

Time Complexity :- O(n)

Space Complexity :- O(n)

Screenshot :-



Description :-

Time Complexity :- O(n)

The function loops through the array once and performs constant-time operations on the

map during each iteration. Space Complexity :- O(n)

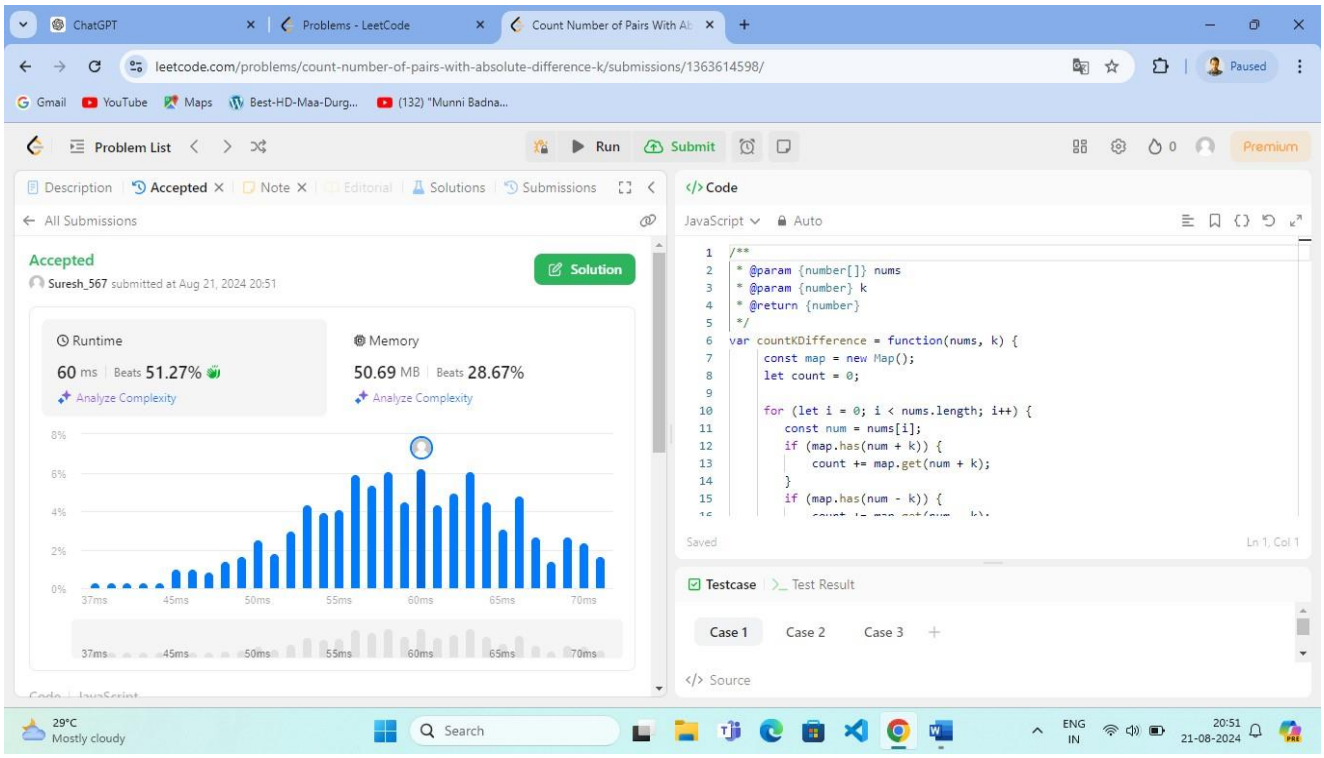
The map stores the frequency of each unique number in the array, which takes O(n) space in the worst case.

Question No. 2006 :- https://leetcode.com/problems/count-number-ofpairs-with-absolute-difference-k/description/

Solution Link :- https://leetcode.com/problems/count-number-ofpairs-with-absolute-differencek/submissions/1363614598/ Time Complexity :- O(n)

Space Complexity :- O(n)

Screenshot :-



Description :-

Time Complexity :- O(n)

Each iteration performs constant-time operations, the total time complexity is O(n).

Space Complexity :- O(n)

The overall space complexity is O(n), primarily due to the space required by the map.

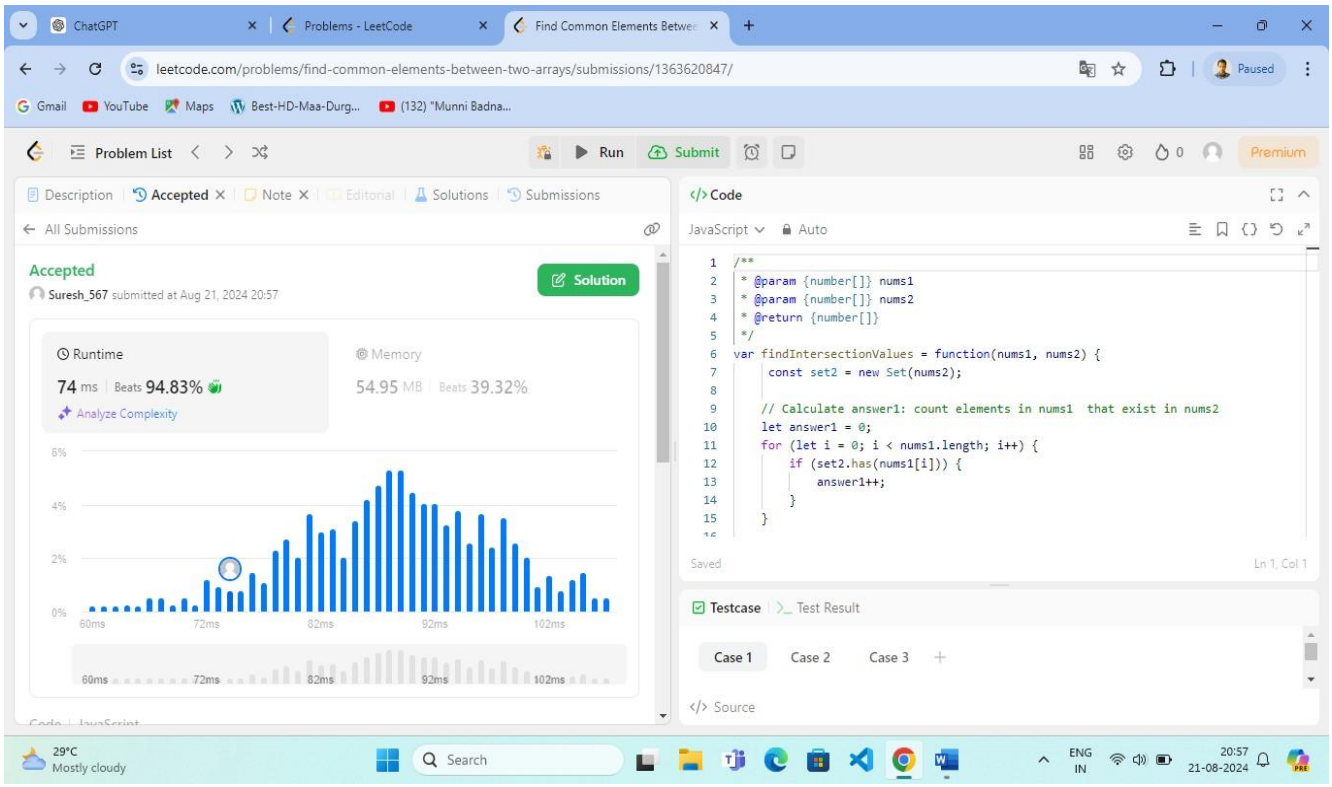
Question No. 2956 :- https://leetcode.com/problems/find-commonelements-between-two-arrays/description/ Solution Link :-

https://leetcode.com/problems/find-commonelements-between-twoarrays/submissions/1363620847/

Time Complexity :- O(n+m)

Space Complexity :- O(n+m)

Screenshot :-



Description :-

Time Complexity :- O(n+m)

The two for-loops each iterate through the arrays with O(1) lookups in the sets, resulting in a total time complexity of O(n + m).

Space Complexity :- O(n+m)

Two sets are created, each of size O(n) and O(m). Therefore, the space complexity is O(n + m).