```
var search = function(nums, target) {
hw-day6
 Js gasStation.js
                                          } else {
 s rotate_Sorted.js
                                               left = mid + 1;
 us water.js
                                      } else { // Right half is sorted
Js 3sum.is
Day-6.pdf
                                          if (nums[mid] < target && target <= nums[right]) {</pre>
Js IsPalindrom.js
                                              left = mid + 1;
Maximum-Subarray.js
                                          } else {
us two_sum.js
                                              right = mid - 1;
                                 return -1; // Target not found
                             };
                             const nums1 = [4,5,6,7,0,1,2];
                             const target1 = 0;
                             console.log(search(nums1, target1)); // Output: 4
                             const nums2 = [4,5,6,7,0,1,2];
                                OUTPUT DEBUG CONSOLE
                                                       TERMINAL
                      PS C:\Users\atulr\OneDrive\Desktop\geekster\javascript\Assigment\Day-6> node "c:\Users\atulr\OneDrive\Desktop\geekster\javascript\As
                       -1
                       -1
                      PS C:\Users\atulr\OneDrive\Desktop\geekster\javascript\Assigment\Day-6>
```

```
var maxArea = function(height) {
hw-day6
                                                                                                                     let maxArea = 0;
    us gasStation.js
                                                                                                                    let left = 0;
    s rotate_Sorted.js
                                                                                                                    let right = height.length - 1;
    s water.js
 3sum.js
                                                                                                                    while (left < right) {</pre>
 Day-6.pdf
                                                                                                                                    const h = Math.min(height[left], height[right]);
 Js IsPalindrom.js
                                                                                                                                    const w = right - left;
 Maximum-Subarray.js
                                                                                                                                    const area = h * w;
 us two_sum.js
                                                                                                                                   maxArea = Math.max(maxArea, area);
                                                                                                                                    if (height[left] < height[right]) {</pre>
                                                                                                                                                   left++;
                                                                                                                                     } else {
                                                                                                                                                   right--;
                                                                                                                     return maxArea;
                                                                                                      };
                                                                                                     const height1 = [1,8,6,2,5,4,8,3,7];
                                                                                                     console.log(maxArea(height1)); // Output: 49
                                                                                                                                              DEBUG CONSOLE
                                                                                                                                                                                                TERMINAL
                                                                              PS C:\Users\atulr\OneDrive\Desktop\geekster\javascript\Assigment\Day-6> node "c:\Users\atulr\OneDrive\Desktop\geekster\javascript\Assigment\Day-6> node "c:\Users\atulr\OneDrive\Desktop\Desktop\Desktop\Desktop\geekster\javascript\Assigment\Day-6> node "c:\Users\atulr\OneDrive\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\Desktop\De
                                                                                49
                                                                              PS C:\Users\atulr\OneDrive\Desktop\geekster\javascript\Assigment\Day-6>
```

```
V DAY-6
                   3sum.is > [@] threeSum
                          const nums = [-1, 0, 1, 2, -1, -4];
3sum.js
s IsPalindrom.js
                          const target = 0;
Js Maximum-Subarray.js
us two_sum.js
                          const threeSum = function(nums) {
                               nums.sort((a, b) => a - b); // Sort the array
                               const result = [];
                              for (let i = 0; i < nums.length - 2; i++) {</pre>
                                   if (i === 0 || (i > 0 && nums[i] !== nums[i - 1])) {
                                       let left = i + 1:
                                       let right = nums.length - 1;
                                       const target = -nums[i];
                                       while (left < right) {
                                            const sum = nums[left] + nums[right];
                                            if (sum === target) {
                                              result.push([nums[i], nums[left], nums[right]]);
                                                while (left < right && nums[left] === nums[left + 1]) left++;</pre>
                                                while (left < right && nums[right] === nums[right - 1]) right--;</pre>
                     21
                                                left++;
                                                right --;
                                              else if (sum < target) {</pre>
                    PROBLEMS
                            OUTPUT
                                   DEBUG CONSOLE
                                                TERMINAL
```

PS C:\Users\atulr\OneDrive\Desktop\geekster\javascript\Assigment\Day-6> node "c:\Users\atulr\OneDrive\Desktop\geekster\javascript\Assigment\Day-6> node "c:\Users\atulr\OneDrive\Desktop\geekster\javascript\Assigment\Day-6>