

SEARCHING & SORTING - SET 1 QUESTIONS

Question 1:

- ❖ **Problem link:** <https://leetcode.com/problems/minimum-absolute-difference/>
- ❖ **Difficulty level:** Easy
- ❖ **Expected Complexity:**
 - Time: $O(n \log n)$
 - Extra space: $O(n)$Space complexity is $O(1)$ if the output array does not count as extra space for space complexity analysis.

Question 2:

- ❖ **Problem link:** <https://leetcode.com/problems/largest-perimeter-triangle/>
- ❖ **Difficulty level:** Easy
- ❖ **Expected Complexity:**
 - Time: $O(n \log n)$
 - Extra space: $O(1)$

Question 3:

- ❖ **Problem link:** <https://leetcode.com/problems/two-sum-ii-input-array-is-sorted/>
- ❖ **Difficulty level:** Easy
- ❖ **Expected Complexity:**
 - Time: $O(n)$
 - Extra space: $O(1)$

Question 4:

- ❖ **Problem link:** <https://leetcode.com/problems/find-the-duplicate-number/>
- ❖ **Difficulty level:** Medium/Hard
- ❖ **Expected Complexity:**
 - Time: $O(n)$
 - Extra space: $O(1)$

Question 5:

- ❖ **Problem link:**
<https://leetcode.com/problems/maximum-element-after-decreasing-and-rearranging/>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
 - Time: $O(n \log n)$
 - Extra space: $O(1)$

Question 6:

- ❖ **Problem link:**
<https://leetcode.com/problems/sell-diminishing-valued-colored-balls/>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
 - Time: $O(n \log n)$
 - Extra space: $O(1)$

Question 7:

❖ **Problem link:**

<https://leetcode.com/problems/find-first-and-last-position-of-element-in-sorted-array/>

❖ **Difficulty level:** Medium

❖ **Expected Complexity:**

- Time: $O(\log n)$
- Extra space: $O(1)$

Question 8:

❖ **Problem link:** <https://leetcode.com/problems/first-missing-positive/solution/>

❖ **Difficulty level:** Hard

❖ **Expected Complexity:**

- Time: $O(n)$
- Extra space: $O(1)$

Note: The solution of all these questions will be provided on 18th May, 2021