

SEARCHING & SORTING - SET 3 QUESTIONS

Question 1:

- ❖ Problem link: <https://leetcode.com/problems/sort-array-by-parity-ii/>
- ❖ Difficulty level: Easy
- ❖ Expected Complexity:
 - Time: $O(n)$
 - Extra space: $O(1)$

Question 2:

- ❖ Problem link: <https://leetcode.com/problems/sorting-the-sentence/>
- ❖ Difficulty level: Easy
- ❖ Expected Complexity:
 - Time: $O(n)$
 - Extra space: $O(n)$

Question 3:

- ❖ Problem link:
<https://leetcode.com/problems/find-all-numbers-disappeared-in-an-array/>
- ❖ Difficulty level: Easy
- ❖ Expected Complexity:
 - Time: $O(n)$
 - Extra space: $O(1)$ (*The output array does not count as extra space)

Question 4:

- ❖ **Problem link:**
<https://leetcode.com/problems/minimum-deletions-to-make-character-frequencies-unique/>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
 - Time: $O(n)$
 - Extra space: $O(1)$

Question 5:

- ❖ **Problem link:** <https://leetcode.com/problems/find-right-interval/>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
 - Time: $O(n \log n)$
 - Extra space: $O(n)$

Question 6:

- ❖ **Problem link:** <https://leetcode.com/problems/search-a-2d-matrix-ii/>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
 - Time: $O(m+n)$
 - Extra space: $O(1)$

Question 7:

- ❖ **Problem link:** <https://leetcode.com/problems/ugly-number-iii/>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
 - Time: $O(\log(\text{max_ans}))$ [$\text{max_ans}=2*10^9$]
 - Extra space: $O(1)$

Question 8:

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