

ARRAYS - SET 1 QUESTIONS

Question 1:

- ❖ Problem link: <https://leetcode.com/problems/maximum-subarray/>
- ❖ Difficulty level: Easy
- ❖ Expected Complexity:
 - Time: $O(n)$
 - Extra space: $O(1)$

Question 2:

- ❖ Problem link: <https://leetcode.com/problems/find-n-unique-integers-sum-up-to-zero/>
- ❖ Difficulty level: Easy
- ❖ Expected Complexity:
 - Time: $O(n)$
 - Extra space: $O(1)$(Output array does not count as extra space for space complexity analysis.)

Question 3:

- ❖ Problem link: <https://leetcode.com/problems/missing-number/>
- ❖ Difficulty level: Easy
- ❖ Expected Complexity:
 - Time: $O(n)$
 - Extra space: $O(1)$

Question 4:

- ❖ Problem link: <https://leetcode.com/problems/slowest-key/>
- ❖ Difficulty level: Easy
- ❖ Expected Complexity:
 - Time: $O(n)$
 - Extra space: $O(1)$

Question 5:

- ❖ Problem link: <https://leetcode.com/problems/product-of-array-except-self/>
- ❖ Difficulty level: Medium
- ❖ Expected Complexity:
 - Time: $O(n)$
 - Extra space: $O(1)$(Output array does not count as extra space for space complexity analysis.)

Question 6:

- ❖ Problem link: <https://leetcode.com/problems/beautiful-arrangement-ii/>
- ❖ Difficulty level: Medium
- ❖ Expected Complexity:
 - Time: $O(n)$
 - Extra space: $O(1)$(Output array does not count as extra space for space complexity analysis.)

Question 7:

- ❖ **Problem link:** <https://leetcode.com/problems/product-of-the-last-k-numbers/>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
 - Time: $O(n)$
(Each 'add' or 'product' operation should take $O(1)$ time)
 - Extra space: $O(n)$

Question 8:

- ❖ **Problem link:** <https://leetcode.com/problems/first-missing-positive/>
- ❖ **Difficulty level:** Hard
- ❖ **Expected Complexity:**
 - Time: $O(n)$
 - Extra space: $O(n)$

Question 9:

- ❖ **Problem link:** <https://leetcode.com/problems/median-of-two-sorted-arrays/>
- ❖ **Difficulty level:** Hard
- ❖ **Expected Complexity:**
 - Time: $O(n+m)$
 - Extra space: $O(n+m)$
(‘n’ and ‘m’ are lengths of the two given sorted arrays)

Note: The solution of all these questions will be provided on 4th May, 2021