# LEETCODE ARTICLES / INTERVIEW EXPERIENCES

(ENTER THE INFO ONLY AFTER CODING OR READING THE ARTICLES)

1. Amazon interview:

**Most Common Word and Substring with K Distinct Characters**

Problems to review:

<https://leetcode.com/problems/longest-substring-with-at-most-k-distinct-characters>

<https://leetcode.com/problems/most-common-word>s

1. Google Onsite interview:

**Chunked Palindrome (really interesting)** - Reviewed

**Product of K Consecutive Numbers** - Reviewed but didn’t find any solution of O(n)

<https://leetcode.com/discuss/interview-question/337515/Google-or-Onsite-or-Chunked-Palindrome>

Solution: O(nk)

Start the loop from the end, that is when it makes sense as per the question if you observe the first two elements in the answer. One more reason is what if k=n then answer where depending on where you start right?

public static void main(String[] args) {

int[] nums = { 1, 3, 3, 6, 5, 7, 0, -3 };

int k = 4;

int count = 0;

int temp = 1;

for (int i = nums.length - 1; i > -1; i--) {

temp = 1;

count = 0;

while ((i - count) >= 0 && count < k) {

temp = temp \* nums[i - count];

count++;

}

nums[i] = temp;

}

for (int i = 0; i < nums.length; i++) {

System.out.println(nums[i]);

}

}

1. **Majority Element**

<https://leetcode.com/problems/majority-element/>

Different types of approaches for this problem are worth noting

Boyer-Moore Voting (explanation):

<https://www.cs.utexas.edu/~moore/best-ideas/mjrty/example.html#step13>

1. Problem **66 PlusOne** in leetcode

Check the solution you submitted

1. **Amazon** online assessment questions

<https://leetcode.com/discuss/interview-question/344650/amazon-online-assessment-questions-2019>

* [Most Common Word](https://leetcode.com/problems/most-common-word)
* [Prison Cells After N Days](https://leetcode.com/problems/prison-cells-after-n-days)
* [K Closest Points to Origin](https://leetcode.com/problems/k-closest-points-to-origin)
* [Reorder Log Files](https://leetcode.com/problems/reorder-log-files)
* [Partition Labels](https://leetcode.com/problems/partition-labels)
* [Min Cost to Add New Roads](https://leetcode.com/discuss/interview-question/256806/Amazon-or-OA-or-Min-cost-to-add-new-roads) (MST)
* [Roll Dice](https://leetcode.com/discuss/interview-question/331158/Amazon-or-Online-Assessment-2019-or-Roll-Dice)
* [Min Cost to Connect Ropes](https://leetcode.com/discuss/interview-question/344677/Amazon-or-Online-Assessment-2019-or-Min-Cost-to-Connect-Ropes) (Merge Files)
* [Optimal Aircraft Utilization](https://leetcode.com/discuss/interview-question/318918/Amazon-or-Online-Assessment-2019-or-Optimal-Aircraft-Utilization) (Foreground/Background Apps)
* [Longest string without 3 consecutive characters](https://leetcode.com/discuss/interview-question/330356/Amazon-or-Online-Assessment-2019-or-Longest-string-without-3-consecutive-characters)
* [Movies on Flight](https://leetcode.com/discuss/interview-question/313719/Amazon-or-Online-Assessment-2019-or-Movies-on-Flight) (Two Sum Closest)
* [Sort Center](https://leetcode.com/discuss/interview-question/271073/Amazon-or-Online-Assessment-2019-or-Sort-Center) (Two Sum)
* [Longest string made up of only vowels](https://leetcode.com/discuss/interview-question/233724/Amazon-online-assessment-Longest-string-made-up-of-only-vowels)
* [Substrings of size K with K distinct chars](https://leetcode.com/discuss/interview-question/344976/Amazon-or-OA-2019-or-Substrings-of-size-K-with-K-distinct-chars)
* [Shopkeeper Sale](https://leetcode.com/discuss/interview-question/324349/Amazon-or-Online-Assessment-2019-or-Shopkeeper-Sale)
* [Treasure Island](https://leetcode.com/discuss/interview-question/347457/Amazon-or-OA-2019-or-Treasure-Island) (BFS)