

# TCP RoadMap Week 5-6 :

## Binary Search :

### Resources :

- <https://www.youtube.com/watch?v=GU7DpgHINWQ>
- <https://www.hackerearth.com/practice/algorithms/searching/binary-search/tutorial/>
- <https://codeforces.com/edu/course/2/lesson/6/1>
- <https://www.topcoder.com/thrive/articles/Power%20up%20C++%20with%20the%20Standard%20Template%20Library%20Part%20One>
- <https://www.codechef.com/LRNDSA03>
- <https://youtu.be/j5uXyPJ0Pew>

### Questions :

- <https://www.spoj.com/problems/AGGRCOW/>
- <https://leetcode.com/problems/kth-smallest-number-in-multiplication-table/>
- <https://leetcode.com/problems/search-in-rotated-sorted-array/>
- <https://leetcode.com/problems/search-a-2d-matrix/>
- <https://leetcode.com/problems/minimized-maximum-of-products-distributed-to-any-store/>
- <https://leetcode.com/problems/find-peak-element/>
- <https://leetcode.com/problems/find-minimum-in-rotated-sorted-array/>
- <https://leetcode.com/problems/minimum-garden-perimeter-to-collect-enough-apples/>
- <https://leetcode.com/problems/koko-eating-bananas/>
- <https://www.geeksforgeeks.org/length-of-longest-common-subarray-for-given-n-array-s/>

# Hashing(maps/sets) :

## Resources:

- <https://codeforces.com/blog/entry/21853>
- <https://www.geeksforgeeks.org/hashing-set-1-introduction/>
- <https://www.geeksforgeeks.org/index-mapping-or-trivial-hashing-with-negatives-allowed/>
- <https://www.geeksforgeeks.org/hashing-set-2-separate-chaining/>
- <https://www.geeksforgeeks.org/hashing-set-3-open-addressing/>
- <https://www.geeksforgeeks.org/double-hashing/>
- [https://www.geeksforgeeks.org/unordered\\_set-in-cpp-stl/?ref=gcse](https://www.geeksforgeeks.org/unordered_set-in-cpp-stl/?ref=gcse)
- [https://www.geeksforgeeks.org/unordered\\_map-in-cpp-stl/?ref=gcse](https://www.geeksforgeeks.org/unordered_map-in-cpp-stl/?ref=gcse)
- <https://www.geeksforgeeks.org/ordered-set-gnu-c-pbds/>
- <https://www.youtube.com/watch?v=efET3lxYCKM>

## Question:

- <https://leetcode.com/problems/two-sum/>
- <https://leetcode.com/problems/count-number-of-nice-subarrays/>
- <https://leetcode.com/problems/finding-pairs-with-a-certain-sum/>
- <https://leetcode.com/problems/longest-substring-without-repeating-characters>
- <https://leetcode.com/problems/max-number-of-k-sum-pairs/>
- <https://leetcode.com/problems/longest-continuous-subarray-with-absolute-diff-less-than-or-equal-to-limit/>
- <https://leetcode.com/problems/continuous-subarray-sum/>
- <https://leetcode.com/problems/make-sum-divisible-by-p/>
- <https://leetcode.com/problems/count-good-meals/>
- <https://leetcode.com/problems/maximum-equal-frequency/>
- <https://leetcode.com/problems/maximum-number-of-ways-to-partition-an-array/>
- <https://leetcode.com/problems/find-two-non-overlapping-sub-arrays-each-with-target-sum/>
- <https://leetcode.com/problems/number-of-ways-where-square-of-number-is-equal-to-product-of-two-numbers/>
- <https://practice.geeksforgeeks.org/problems/make-a-distinct-digit-array2007/1>