

Tracks to practice before Class-4:

- Introduction
- Mathematics
- Recursion
- Arrays
- Searching
- Sorting
- Matrix
- Hashing

Imp. Articles:

- <https://www.geeksforgeeks.org/understanding-time-complexity-simple-examples/>
- <https://www.hackerearth.com/practice/basic-programming/complexity-analysis/time-and-space-complexity/tutorial/>
- <https://www.geeksforgeeks.org/how-do-dynamic-arrays-work/>
- <https://www.geeksforgeeks.org/prefix-sum-array-implementation-applications-competitive-programming/>
- <https://www.geeksforgeeks.org/recursion/>
- <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/>

Imp Problems:

- **Maths:**
 - <https://www.geeksforgeeks.org/sieve-of-eratosthenes/>
 - <https://www.geeksforgeeks.org/count-divisors-n-on-13/>
 - <https://www.geeksforgeeks.org/euclidean-algorithms-basic-and-extended/>
 - <https://www.geeksforgeeks.org/modular-exponentiation-power-in-modular-arithmetic/>
- **Arrays:**
 - <https://www.geeksforgeeks.org/write-a-program-to-reverse-an-array-or-string/>
 - <https://www.geeksforgeeks.org/program-for-array-rotation-continued-reversal-algorithm/>
 - <https://www.geeksforgeeks.org/maximum-difference-between-two-elements/>
 - <https://www.geeksforgeeks.org/length-of-the-longest-alternating-even-odd-subarray/>
 - <https://www.geeksforgeeks.org/painters-partition-problem/>
 - <https://www.geeksforgeeks.org/count-distinct-elements-in-an-array/>
- **Recursion:**

- <https://www.geeksforgeeks.org/print-all-combinations-of-given-length/>
- <https://www.geeksforgeeks.org/given-a-string-print-all-possible-palindromic-partition/>
- <https://www.geeksforgeeks.org/factorial-of-large-numbers-using-logarithmic-identity/>
- <https://www.geeksforgeeks.org/recursion/>

- **Hashing:**

- <https://www.geeksforgeeks.org/find-if-there-is-a-subarray-with-0-sum/>
- <https://www.geeksforgeeks.org/find-subarray-with-given-sum/>
- <https://www.geeksforgeeks.org/number-subarrays-sum-exactly-equal-k/>
- <https://www.geeksforgeeks.org/find-union-and-intersection-of-two-unsorted-arrays/>
- <https://www.interviewbit.com/problems/anagrams/>
- <https://www.interviewbit.com/problems/subarray-with-b-odd-numbers/>
- <https://www.interviewbit.com/problems/longest-substring-without-repeat/>
- <https://www.interviewbit.com/problems/window-string/>