ARRAY

use vector with hash set in stl for direct find

https://www.geeksforgeeks.org/count-possible-decodings-given-digit-sequence/

KMP algorithm pattern repetition

- Kadane's algorithm
- leaders-in-an-array

Dutch-National Flag Algo

http://www.geeksforgeeks.org/three-way-partitioning-of-an-array-around-a-given-range/

Reverse array: (ArBr)r

http://www.geeksforgeeks.org/find-maximum-value-of-sum-iarri-with-only-rotations-on-given-array-allowed/

Max sum with rotations: sumarr - (n)arr[n-j]

http://www.geeksforgeeks.org/maximize-sum-consecutive-differences-circular-array/

http://www.geeksforgeeks.org/sorted-subsequence-size-3-linear-time-using-constant-space/

****http://www.geeksforgeeks.org/largest-subarray-with-equal-number-of-0s-and-1s/

###https://practice.geeksforgeeks.org/problems/largest-subarray-with-0-sum/1

Number Theory

- 1. Modular Exponentiation
- 2. Modular multiplicative inverse
- 3. Primality Test | Set 2 (Fermat Method)

- 4. Euler's Totient Function
- 5. Sieve of Eratosthenes
- 6. Convex Hull
- 7. Basic and Extended Euclidean algorithms
- 8. Segmented Sieve
- 9. Chinese remainder theorem
- 10. Lucas Theorem

