**Complexities:**

Theory:

[Analysis of algorithms(8 sets)](https://www.geeksforgeeks.org/analysis-of-algorithms-set-2-asymptotic-analysis/)- all 8 sets are not mandatory

[youtube.com/watch?v=mV3wrLBbuuE](http://youtube.com/watch?v=mV3wrLBbuuE) (watch the first hour of this video for the time being).

Questions: [Geeks for geeks](https://www.geeksforgeeks.org/practice-questions-time-complexity-analysis/)- Try solving these on your own

**Math**:

Questions:

* [Palindrome number](https://leetcode.com/problems/palindrome-number/)
* [Power of three](https://leetcode.com/problems/power-of-three/)
* [Reverse Integer](https://leetcode.com/problems/reverse-integer/)
* [Missing number](https://practice.geeksforgeeks.org/problems/missing-number-in-array1416/1)
* [Minimum steps](https://practice.geeksforgeeks.org/problems/minimum-steps-to-make-product-equal-to-one/1/)
* [Rooms required](https://practice.geeksforgeeks.org/problems/required-rooms3939/1/)
* [Add digits](https://leetcode.com/problems/add-digits/)
* [Pascal triangle](https://leetcode.com/problems/pascals-triangle/)
* [sqrtx](https://leetcode.com/problems/sqrtx/)

**Patterns**:

Theory: <https://www.programiz.com/c-programming/examples/pyramid-pattern>

Questions:

<https://www.geeksforgeeks.org/c-programs-print-interesting-patterns/>(Try solving these first)

[Printing pattern](https://www.hackerrank.com/challenges/printing-pattern-2/problem)