Ques to practice after studying the topics

- Find min/max of 3 numbers
- Form different types of patterns -diamond, triangle, empty square
- Patterns ques (you can do any number of questions from these which you like)-
- Given N, print patterns upto N lines. For eg For N=6, the following pattern will be printed.

11111

100001

- Take N (number of rows), print the following pattern (for N = 4).

1 1 12 21 123 321 1234321

- Take N (number of rows), print the following pattern (for N = 4).

1 232 34543 4567654

- Take N as input. For a value of N=7, we wish to draw the following pattern:

- Take N (number of rows), print the following pattern (for N = 5)

- Take N as input. For a value of N=5, we wish to draw the following pattern:

```
45
      5 4 3
                   3 4 5
      5432
                 2345
      54321 12345
      54321012345
      54321 12345
      5432
                 2345
      5 4 3
                   3 4 5
      5 4
                    45
      5
                      5
- Take as input N, an odd number(>=5) Print the following pattern for N = 7
*****
- Take N (number of rows), print the following pattern (for N = 5).
       * *
- Take n as number of rows, print the following pattern (for n=5)
12345
1234*
123***
12****
1 * * * * * * *
- Print pascal triangle till n rows. For n=5 given below
 121
1331
14641
```

5

1 11

- Ques on finding time complexity

5 4

5

- Checking prime number in sqrt(n)
- Implement sieve of eratosthenes https://leetcode.com/problems/count-primes/
- Find smallest prime factor
- Check if a number if a power of 2 or not in O(1)
- Count total set bits
- Divide Integers without / operator
- Power Set (this is very important)
- Find MSB in o(1)
- Find the square of a number without using multiplication or division
- Convert Binary to decimal and vice versa
- Finding number of 1 in binary rep
- Count digits of number
- Reverse a number
- Factorial of a number
- Check whether a number is Palindrome

https://practice.geeksforgeeks.org/problems/palindrome0746/1 https://leetcode.com/problems/palindrome-number/

- Check whether a number is armstrong number https://practice.geeksforgeeks.org/problems/armstrong-numbers2727/1
- Calculate Npr and ncr
- Write code for Fast exponentiation https://leetcode.com/problems/powx-n/