NOTE

Data Structure and Algorithm DSA

Credit = 3 Theory = 2 , Practice =1
Duration = 45 hours

Requirement

- Programming language skill (C++)

Lv1. If it work don't touch it Lv2. Why it works Lv3. Optimize it !

What you will get

- design , analyze , implement different of algorithm
- data structres (Array, Linkedlist , queue, stack , tree, graphs)
- Learn Problem-solving skill in coding

Program = Data Structure + Algorithm

What to reviews

- Basic C++ (Variable, Composite types , ...)
- Pointer and Reference
    - What
    - Function (passed by reference vs value)
- ControlFlow Statements
    - loop: for , while ,do while , ..(break , continue)
    - conditional = If , else , switch case ...
- Funtions
    - recursive functions
- Class and Object
    - Class : blueprint
    - Object : instance of a class
- Structure
    - `struct`:
- Arrays
    - one dimensional array
    - iteration , search , sorts , ...
- Operators
    - symbol,keyword used perform operation or calculated
- OOP (a little bit)

Evaluation method

1. Attendance = 10% (Present > 50%)
2. Assignment = 20% (Homework , Classroom , Presentation)

3. Midterm = 20%
4. Final Exams (or Final Project) = 50%

> Take good note (Obsidian) more practice

References