MONTH 1 CONCEPTS TO LEARN (ALX)

1. POINTERS IN C

- Declaring and dereferencing pointers
- Pointer arithmetic

2. DATA STRUCTURE I

- Arrays
 - Declaring and initializing arrays
 - Accessing array elements
 - Types of arrays (multidimensional arrays etc.)
 - Strings as arrays.

3. POINTERS IN C

Pointers to pointers

4. RECURSION IN C

- Recursive functions
- Recursion vs iteration
- Solving problems(factorial, Fibonacci series, binary search) recursively

5. COMMAND LINE BEHAVIOUR (CLB) FUNCTIONS

- Argument count and its application
- Argument vector/value and its application

6. STATIC LIBRARIES IN C

- Definition of a library and its use
- The 'ar' and 'ranlib' functions for creating libraries
- Dynamic and static libraries(The differences)

7. MEMORY MANAGEMENT IN C

 Memory allocation functions and application(malloc(), calloc(), realloc() & free()).

8. PREPROCESSORS IN C (CPP)

- Understanding the compilation process
- Macros (definition and typesobject like macros, function like macros etc. defining macros)
- Preprocessor directives
- Predefined Macros and use.
- Include guards

9. DATA STRUCTURE II

- Structs(Declaring and accessing structs)
- Pointers to structs
- Documentation of structs
- The typedef keyword

10. POINTERS IN C

Pointers to functions (syntax for declaration and application)

11. VARIADIC FUNCTIONS

- Declaration and definition
- The *stdarg* library.
- const keyword

12. PRINTF GROUP PROJECT