



Intro C++ Syllabus

- What is programming? The brief history of programming languages.
- Types and differences of programming languages, their practical usage in different areas.
- Intro in C++, a few words about the compiler and how a program written in C++ is getting compiled.
- Primitive types of C++, their size in memory.
- Conditional statements (If / else).
- Loops(For / While / Do while).
- Functions.
- Header and source files.
- Arrays.
- Sorting algorithms(Bubble sort / Selection sort/ Insertion sort / Merge sort / Quick sort.
- Algorithm complexity, the complexity of sorting algorithms.
- Pointers.
- Multidimensional arrays.
- Binary number system, conversion between binary and decimal, and vice versa.
- Bitwise operators.
- Random numbers.
- Debugging.