

# Freshers-Elevator Course Structure

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## Week 1

<b>Day 1</b>	Basic Introduction to C++ Programming Variables, Header files, Build process compilation V/S execution of program
<b>Day 2</b>	-
<b>Day 3</b>	Loops in C++ Switch case Introduction to Arrays
<b>Day 4</b>	-
<b>Day 5</b>	Functions Introduction to STL & Vectors
<b>Day 6</b>	-
<b>Day 7</b>	<i>Guest session with Software Engineer of Microsoft</i>

## Week 2

<b>Day 1</b>	Time Complexity
<b>Day 2</b>	-
<b>Day 3</b>	Introduction to Sorting and various sorting methods
<b>Day 4</b>	-
<b>Day 5</b>	Sorting - 2
<b>Day 6</b>	-
<b>Day 7</b>	<i>Interactive session: How to get started with coding and competitive programming Various platforms discussion</i>

## Week 3

<b>Day 1</b>	Understanding Sets & Maps and various STL
<b>Day 2</b>	-
<b>Day 3</b>	Definition and uses of structures & strings ASCII table
<b>Day 4</b>	-
<b>Day 5</b>	Number system & Bitwise Operators
<b>Day 6</b>	-
<b>Day 7</b>	<i>Quiz and Practice Contest</i>

## Week 4

<b>Day 1</b>	Bit Manipulation
<b>Day 2</b>	-
<b>Day 3</b>	Introduction and use cases of Stacks
<b>Day 4</b>	-
<b>Day 5</b>	Introduction and use cases of Queues
<b>Day 6</b>	-
<b>Day 7</b>	<i>Guest session with Software Engineer of Google</i>

## Week 5

<b>Day 1</b>	Deep dive into stacks & queues
<b>Day 2</b>	-
<b>Day 3</b>	Introduction to pointers & where they are used
<b>Day 4</b>	-
<b>Day 5</b>	Introduction of Linked lists
<b>Day 6</b>	-
<b>Day 7</b>	<i>Quiz and Practice Contest</i>

## Week 6

<b>Day 1</b>	Advance Use cases of Linked Lists
<b>Day 2</b>	-
<b>Day 3</b>	Introduction to Recursion and its use
<b>Day 4</b>	-
<b>Day 5</b>	2 pointer approach
<b>Day 6</b>	-
<b>Day 7</b>	<i>Resume-making session</i>

## Week 7

<b>Day 1</b>	Introduction to Trees
<b>Day 2</b>	-
<b>Day 3</b>	Use cases of Trees
<b>Day 4</b>	-
<b>Day 5</b>	Introduction to Graphs
<b>Day 6</b>	-
<b>Day 7</b>	<i>Interactive session on LinkedIn and how to use it effectively?</i>

## Week 8

<b>Day 1</b>	Graphs basics continue along with use cases of graph.
<b>Day 2</b>	-
<b>Day 3</b>	Introduction to heap and its uses
<b>Day 4</b>	-
<b>Day 5</b>	Hashing techniques
<b>Day 6</b>	-
<b>Day 7</b>	<i>Quiz and Practice Contest</i>

## Week 9

<b>Day 1</b>	Web development project
<b>Day 2</b>	-
<b>Day 3</b>	Web development project
<b>Day 4</b>	-
<b>Day 5</b>	Web development project
<b>Day 6</b>	-
<b>Day 7</b>	<i>Completion of course and further guidance for how to make your 2nd year effective</i>

## Our Goal

We are committed to helping you in any way to get you familiar with coding by giving you correct guidance in a structured manner. The course structure is made by keeping in mind the needs of a 1st year student!!

So Along with these, you will also have the following benefits:

1. Progress tracking to keep you on track
2. On-call consultation about your career decisions when needed
3. Certifications
4. A healthy friendly peer group to help you upskill
5. Fun sessions to lighten you up
6. Regular pep talks to motivate you
7. Access to recordings and material for future use

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Note:

1. The course structure is flexible and can be changed as per the need of the students.
2. Due to limited bandwidth, we can only take few students.