S1_01 Data Structures And Algorithms : Subject Content

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Reading Material

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Sequential	• Steps are executed one after another
Conditional	• One of the two or more specified steps get executed based on conditional evaluation
Iterative	• A set of instructions are repeated in a loop

FIGURE 2: TYPES OF INSTRUCTIONS

Keep in mind that in real world software programs, most algorithms will have one or all the above instructions in the same program.

1.3 Algorithm Design Techniques

There are different Algorithm Techniques that are available. The exact algorithm that is picked for the solution depends on the problem.

Figure-3 shows the different techniques that are available.

- Brute Force
- Divide and Conquer
- Decrease and Conquer
- Greedy
- Dynamic Programming

FIGURE 3: ALGORITHM DESIGN TECHNIQUES

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