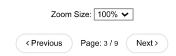




## S1\_01 Data Structures And Algorithms : Subject Content

Course Menu



## manipalearn Reading Material The sequence of steps thus developed and usually written in simple language is called an algorithm. As you go through the above stages, it will be clear that every algorithm: Has one or more known inputs An explicit, unambiguous finite set of steps · Generates one or more Outputs

Terminates in a fixed amount of time.

The life cycle of an algorithm consists of the phases shown in Figure-1.



## FIGURE 1: LIFE CYCLE OF AN ALGORITHM

## 1.2 Introduction to writing algorithms

The types of instructions in an algorithm are:

- · Sequential: In a sequential algorithm all the steps are executed one after the other.
- Conditional: A conditional algorithm includes a conditional branching wherein one of the two specified steps gets executed based on a conditional evaluation.
- . Iterative: In an iterative algorithm the set of instructions are repeated in a loop.

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