

9 – Abstraction and Automation

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Algorithms

An algorithm is a sequence of steps involving calculations for carrying out a task.

Abstraction

Abstraction is the process of using **information hiding** to make all details that are not essential to a problem out of sight.

Decomposition

This is the process of breaking a problem up into a number of sub-problems so that each sub-problem accomplishes a specific task.

Composition

The process of combining smaller procedures into compound procedures.

Automation

Automation is the process of taking real life situation and modelling cleanly so that a solution can be found. In general, the process of solving these problems involves: writing algorithms, architecting data structures and running the code.