Algorithm is a step-wise or step-by-step finite sequence of instructions, to solve a well-defined computational problem.

Its a finite set of a instructions for performing a particular task.

An algorithm can be expressed in english like language called Pseudo-code, on in a programming language on in a flow-chart.

Every algorithm must define the following vultimes

Input: There are no zero on more values that are externally supplied.

Output: Atleast one value is produced.

Definiteness: Each step must be clear and unambiguous.

Timiteness: If we trace the steps of an algorithm, then for all cases the algorithm must terminate after a finite number of steps.

Effectiveness: - Each step must be sufficiently basic.



* if algo. doesn't give an output, then its known as a procedure.

Efficiency of an Algorithm: Efficiency & an Algorithm classifier to develop efficient algorithms for the processing of the data. The time and space it uses are two major measures of the efficiency of an alaquithm. algorithm. > The time is measured by counting the Key operation. > Space orequired by an algorithm is measured by counting the maximum memory needed by the & algorithm. -> The complexity of an algorithm is the function f(n) which gives the sunning to time, execution time and/or the Storage space required by an algorithm in Leons of imput size not an

algorithm.