

Algorithms

It is a combination of sequence of finite steps to solve any particular problem.

Multiply Two Numbers

- 1) Take two numbers (a & b) —
- 2) Take $c = a * b$ —
- 3) Return c —

Properties → 1) Terminate after finite amount of time

2) Produce atleast one output

3) Independent of any programming language.

↳ C/C++ / Java / Python / —

4) Unambiguous (Deterministic)

10 Days

$$\left\{ \begin{array}{l} a = 5, \quad b = 2 \\ \quad \quad \quad \rightarrow 5 * 2 = 10 = c \\ \quad \quad \quad \quad \quad \quad \rightarrow \text{answer} = 10 \end{array} \right.$$
$$\downarrow$$
$$\underline{5 * 2 = 10}$$