

What is a Feasible Path?

A control flow path through a function or a procedure is possible if there is an assignment to input values which drives execution down the path. We can also make use of a regular expression to describe a set of paths.

Feasible Path Analysis depends on:

- Associated type of constants and variable declarations of a function.
- The Path from start to end.

Methods:

The path can be well analysed using White Box testing technique, in which test cases are constructed from code without reference to requirements or specifications. A collection of test cases are constructed to satisfy one or more coverage criteria.

- **Statement Coverage** : Each statement of the program should be exercised with minimal number of tests.
- **Decision Coverage** : The outcome of every decision should be exercised to true and false.
- **Condition Coverage** : Apart from testing the outcomes of each decision, the various ways of in which each outcome can be reached through different values of subconditions within a decision must be exercised.
- **Path Coverage** : All the control flow paths through out the program is tested.