



Data Structures

Analysis of Algorithm-Time Complexity

Types of Analysis:

- 1) Worst case Analysis (Upper bound) 2) Best case Analysis (Lower bound)
- 3) Average case Analysis (prediction of sunning time of algorithm)

Lower bound < Running time < Upper bound.

- How to compare two or more than two algorithms.
- → O, compare them on basis of execution time.

  → D2) count number of statements executed at any inputi
- → 0 3) count number of instructions written by programmers.

Good Approach:

- 1) compare the algorithms in terms of time at any
- > Time in terms of n.

e: g f(m) = 7m +100

The measure of efficiency of approximation of T(n) is called Assymptotic Approach.