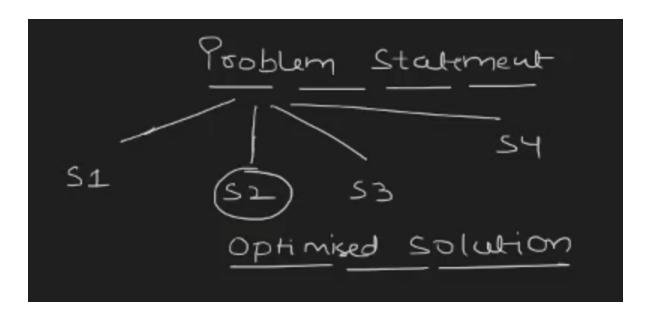
Analysis in Algorithms

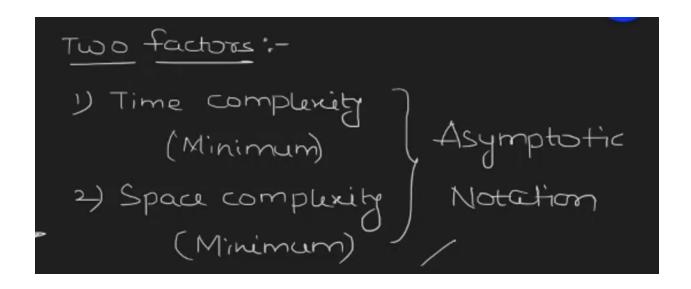
We need optimised solutions for a given problem statement.



Two main Factors:

- 1) Time Complexity
- 2) Space Complexity

Analysis in Algorithms 1



Which is more Important?

Tradeoff b/w time & space Time complexity is more Powerful tuan space complois.

TIME COMPLEXITY

Types of Analysis

- 1. Apostiary Analysis
- 2. Apriori Analysis

Analysis in Algorithms 2

Apostiary Analysis: Relative Analysis

- Dependent on the language of compiler and type of hardware.
- Exact Answers
- Different answers
- Program running fast because of the type of hardware.

Apriori Analysis: Absolute Analysis(Important)

- Independent of the language of compiler and the type of heardware
- Approximate answers
- Same answers
- Program running fast because of some good logic.

Analysis in Algorithms 3