



Seminar Objectives

Levels of testing: integration testing.



Topics

- Integration testing strategies: Big-Bang integration, Incremental integration, Sandwich integration
- Continuous Integration.

Assignment 1 - 10-15 minutes - Discussion

Topics

- Levels of testing
- Testing approaches/techniques for levels of testing
- Integration: Stub, Driver, Big-Bang integration, Incremental integration, Sandwich integration

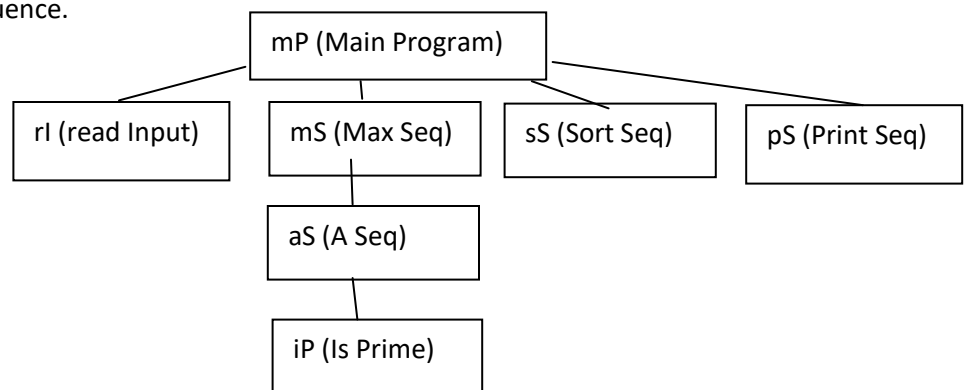
Assignment 2 – 60-80 minutes – Integration testing strategies

- Big-Bang integration
- Incremental integration (Bottom-up, Top-down-depth first and breath first)
- Sandwich integration

Problem

An array of integer numbers is given. The application must:

- compute the longest sequence of prime numbers;
- sort the obtained sequence;
- print the sequence.



Team work (requisite A4 papers, color pencils):

- 4 teams (BigBangTeam, BottomUpTeam, TopDownTeam, SandwichTeam)
- 20 minutes work on the integration topic (each team on a particular strategy) – create a A4 paper information
 - What it is? Description/Definition, Why it's useful,
 - Software integration sequence of the modules, Stub/Driver, type of testing
 - Error in module, Error misuse of interface, Error misunderstanding of interface
- 5-10 minutes – presentation for each team
- 10 minutes - debriefing

Assignment 3 – 5-10 minutes – Quiz (seminar content)