

## Objectives

- ◆ Review of Session 3
  - ◆ Basic Concepts of White box testing
  - ◆ Logic Coverage

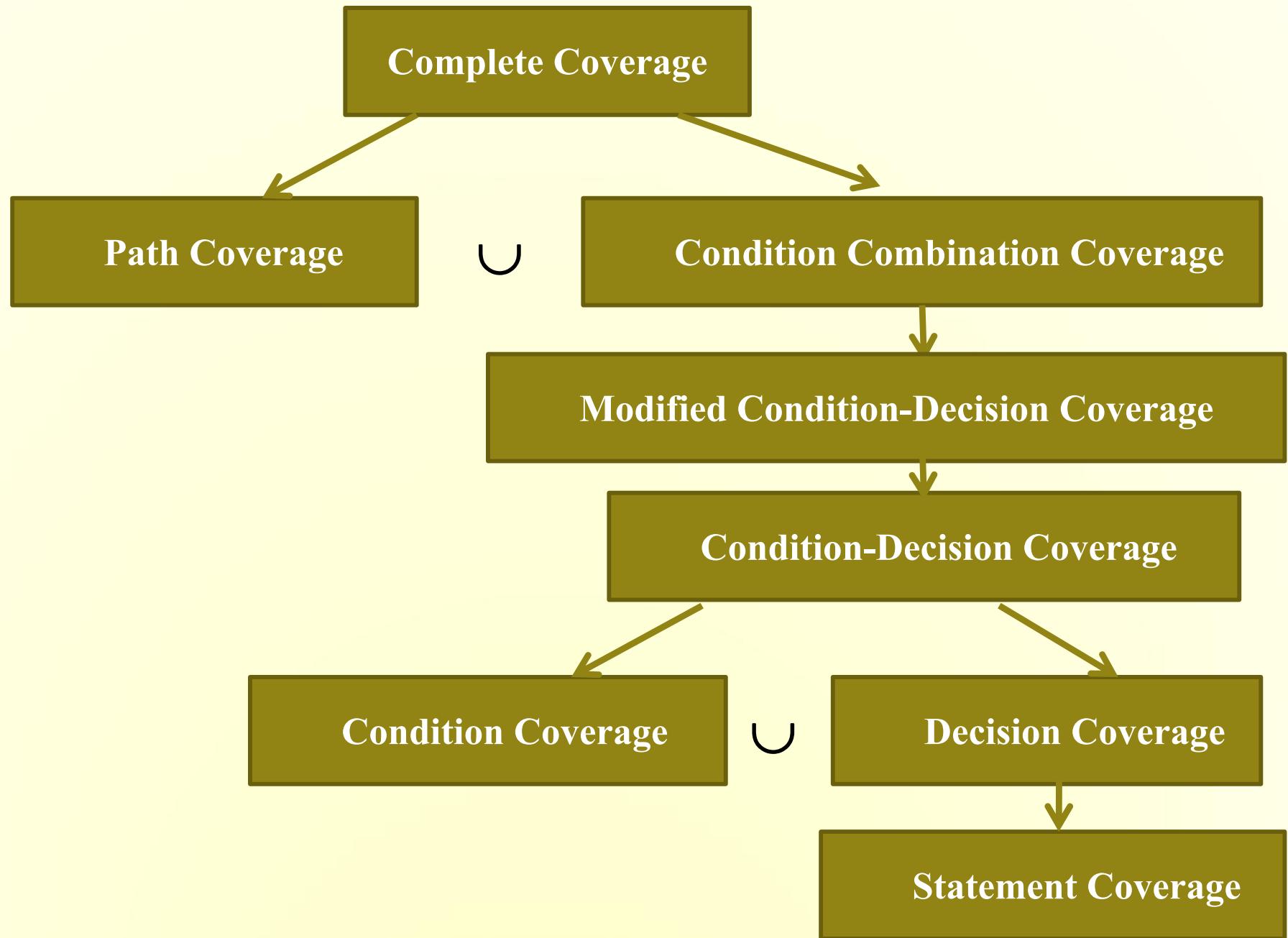
# 3.1 Basic Concepts

- \* White-box testing must follow several principles:
  - \* All independent path in a module must be implemented at least once. **(Basis path testing)**
  - \* All logic values require two test cases: true and false. **(Logic coverage)**
  - \* Inspection procedures of internal data structure, and ensuring the effectiveness of its structure.  
**(Static Testing + Data Flow Testing)**
  - \* Run all cycles within operational range.  
**(Loop testing)**

## Exercise 6

- \* Try to analyze the relationship among 8 different coverage strategies
  - \* Statement Coverage
  - \* Decision Coverage
  - \* Condition Coverage
  - \* Condition/Decision Coverage
  - \* Modified Condition/Decision Coverage
  - \* Condition Combination Coverage
  - \* Path Coverage
  - \* Complete Coverage

# Exercise 6



# Summary of White-Box Coverage Relationships

