



# White Box Testing

- White box testing or directed takes the structure of the program into consideration
- Testing under coverage criteria (see figure)
  - Statement coverage (S) - Every statement of the code is covered
  - Branch coverage (B) - Every branch out of a decision point is to be taken at least once
  - Condition coverage (C) - Condition (eg.  $(D \wedge E)$ ) must be tried with both TRUE and FALSE
  - Multiple Condition Coverage (MC) - Like C except that truth values needed to be assigned to both D and E (so 4 combinations)
  - Path Coverage (P) - Every path from entry to exit must be traversed