CS 4501/6501: In-class 10
Logic Coverage Criteria
26-Oct-2017

Names:

Purpose: Understand the basic concept of logic coverage criteria (predicate coverage, clause coverage, combinatorial coverage, determination)

Instruction: Work with your neighbors in groups. Consider the following predicates and answer the questions

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(1) p = ab
(2) p = a + (bc)
(3) p = !a!b + a!c + !ac
(4) p = a -> (b -> c)
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1. List test requirements that satisfy predicate coverage (PC)

2. List test requirements that satisfy clause coverage (CC)

3. Compute (and simplify) the conditions under which each clause determines predicate p

4. Write the complete truth table for the predicate. Include columns for the conditions under which each clause determines the predicate, and also a column for the value of the predicate itself