

CS 4501/6501: In-class 8

Graph Coverage Criteria

10-Oct-2017

Names:

Purpose: Understand the basic concept of graph and apply graph coverage criteria

Instruction: Work with your neighbors in groups. Consider the following graph and test paths

$N = \{ 1, 2, 3, 4, 5, 6, 7, 8 \}$

$N_0 = \{ 1 \}$

$N_f = \{ 8 \}$

$E = \{ (1, 2), (2, 3), (2, 8), (3, 4), (3, 5), (4, 3), (5, 6), (5, 7), (6, 7), (7, 2) \}$

$t_1 = [1, 2, 8]$

$t_2 = [1, 2, 3, 5, 7, 2, 8]$

$t_3 = [1, 2, 3, 5, 6, 7, 2, 8]$

$t_4 = [1, 2, 3, 4, 3, 5, 7, 2, 8]$

$t_5 = [1, 2, 3, 4, 3, 4, 3, 5, 6, 7, 2, 8]$

$t_6 = [1, 2, 3, 4, 3, 5, 7, 2, 3, 5, 6, 7, 2, 8]$

1. Draw the graph
2. List a minimal set of test paths that achieve Node coverage
3. List a minimal set of test paths that achieve Edge coverage

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