

Determine statement and decision coverage for LO: LO-4.4.4 ISTQB Exam Question Syllabus Level: CTFL 2010	Int Softwar Qualificatio
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**General**

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<b>Reviewer</b>	Mette Bruhn-Pedersen, Hans Schaefer
<b>Date Reviewed</b>	9-Jan-10 / 11-Jan-10

**(Non-Scenario) Conventional MC (Type A) Question**  
**Description part**

<b>ID</b>	CTFL.LO-4.4.4_Q1_K4
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<b>Question (stem)</b>	<p>One of the coverage goals for the project is 100% decision coverage. The following 3 tests have been executed for the control flow graph below.</p> <p>Test A covers path: A, B, D, F, G          Test B covers path: A, C, F, G          Test C covers path: A, C, F, C, F, C, F, G</p> <div style="text-align: center;"> <pre> graph TD     A[A] --&gt; B[B]     A --&gt; C[C]     B --&gt; D[D]     D --&gt; E[E]     D --&gt; F[F]     C --&gt; F     F --&gt; G[G]     F --&gt; C             </pre> </div> <p>Which of the following statements related to the decision coverage goal is correct?</p>
<b>Correct Answer</b>	A. Decision D has not been tested completely.
<b>Distracters</b>	B. 100% decision coverage has been achieved. C. Decision E has not been tested completely. D. Decision F not been tested completely.
<b>Justification for Correct Answer</b>	<p>This is a true-false question that requires the ability to analyze a control flow and tests. This requires analysis work.</p> <p>A is correct because D is a decision with the left entry not being executed. E is not a decision.</p>

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	Wrong is in B: D is a decision with the left entry not being executed. Wrong is in C: E is not a decision. Wrong is in D: F has been completely tested.
<b>Partial Scoring</b>	No
<b>Syllabus Ref.</b>	Reference <a href="#">4.4</a>
<b>Learning Objective</b>	LO-4.4.4 Assess statement and decision coverage for completeness using the coverage formulas. (K4)
<b>K-Level</b>	<input type="checkbox"/> K2, <i>Understand</i> <input type="checkbox"/> K3, <i>Apply</i> <input checked="" type="checkbox"/> K4, <i>Analyze</i>
<b>Reviewer Response</b>	<p>Rejected with comments.</p> <p>ID should be corrected.</p> <p>I think the coverage degree must be explicitly stated. The change in option D is not imperative but I think it makes the question better.</p> <p>Question text should be corrected as it contained statement coverage as well as decision coverage. The complete rephrasing is just an improvement suggestion.</p> <p>TM: I have changed the ID, Option D, the coverage 100% and added to path C (" - C - F"). G added as the end point</p>