

**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**

**ID** CTFL.LO-4.4.4\_Q1\_K4

**Description part**

<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>

Determine statement and decision coverage for LO:

LO-4.4.4

ISTQB Exam Question Syllabus Level: CTFL 2010

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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>	Rejected with comments. ID should be corrected. 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. Question text should be corrected as it contained statement coverage as well as decision coverage. The complete rephrasing is just an improvement suggestion. TM: I have changed the ID, Option D, the coverage 100% and added to path C (" – C – F"). G added as the end point