**Unit Test**

**Test Cases for Problem 1:**

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| Test Case | Description | Expected Result | Actual Result | Test Result |
| 01 | A function called printDepth() that is written for printing all keys and their depth from a nested array that will be passed on this function as its parameter. The following array is passed for this test case: | key1 1 key2 1 key3 2 key4 2 key5 3 |  | Ok |
| 02 | According to the Test Case 1, the following array is passed for this test case: | key1 1 key2 2 key3 2 key4 3 key5 2 key6 3 key7 3 key8 4 |  | Ok |

**Test Cases for Problem 2:**

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| Test Case | Description | Expected Result | Actual Result | Test Result |
| 01 | A function called printDepth() is written for printing all keys and their depth and also be able to handle PHP object from a nested array that will be passed on this function as its parameter. The following array is passed for this test case: | key1 1 key2 1 key3 2 key4 2 key5 3 User 3 first\_name 4 last\_name 4 father 4 first\_name 5 last\_name 5 father 5 |  | Ok |

**Test Cases for Problem 3:**

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| Test Case | Description | Expected Result | Actual Result | Test Result |
| 01 | A function called lca() is written for finding least or lowest common ancestor from a binary tree that require 3 arguments such as root, node1, node2 as its parameter. The following binary tree is constructed to test the function in this case: | LCA of 10 and 14 is 12 | LCA of 10 and 14 is 12 | Ok |
| 02 | According to the Test Case 1, the following values are passed for this test case: | LCA of 14 and 8 is 8 | LCA of 14 and 8 is 8 | Ok |