**Problem 5-1-a.**

a = (b < 10) || c

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Inputs** | | **Expected Outputs** |
| **b** | **c** | **a** |
| 1 | 9 | F | T |
| 2 | 10 | F | F |
| 3 | 10 | T | T |

**Problem 5-1-b.**

a = b || (c>=5)

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Inputs** | | **Expected Outputs** |
| **b** | **c** | **a** |
| 1 | T | 4 | T |
| 2 | F | 4 | F |
| 3 | F | 5 | T |

**Problem 5-1-c.**

a = (b <=5) & (c>=8)

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Case** | **Inputs** | | **Expected Outputs** |
| **b** | **c** | **a** |
| 1 | 5 | 7 | F |
| 2 | 5 | 8 | T |
| 3 | 6 | 8 | F |

**Problem 5-1-d.**

a = (b>5) & (b<=15)

|  |  |  |
| --- | --- | --- |
| **Test Case** | **Inputs** | **Expected Outputs** |
| **b** | **a** |
| 1 | 5 | F |
| 2 | 6 or 15 | T |
| 3 | 16 | F |
| 4 | 15 or 6 | T |