Table 1: Task (1)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Number1 | 0xFFF00F00 | 0x00000000 | 0xFFFFFFFF | 0xF0000000 |
| R2 | 00 0F F0 FF | 00 00 00 00 | FF FF FF FF | 00 00 00 F0 |

Table 2: Task (2)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| R0 | 0x000000F0 | 0x00000000 | 0xFFFFFFFF | 0xF0000A00 |
| R1 | 0xFFFFFFFF | 0x00000000 | 0xFFFFFFFF | 0x00000000 |

Table 3: Task (3)

|  |  |  |
| --- | --- | --- |
| Passwords | 345676, 87654, 902345, 290657, 0x00000000 | 1234, 34567, 345676, 87654, 902345, 56784, 0x00000000 |
| R4 | 0xFFFFFFFF | 0x00000000 |

Table 4: Task (4)

|  |  |  |
| --- | --- | --- |
| Array | -10, 14, -1, 0, 22, -7, -100, 0, -99, 77 | 200, -14, 0, 0, 22, 0, -100, 0, -80, -180 |
| R4 | 0x00000004 | 0x00000002 |
| R5 | 0x00000004 | 0x00000002 |

1. **[2 marks]** Why it is wrong to use LSR in task 1?

- LSR counts the number in reverse order. If we were to use some other function other than LSR then the loop would count the number of ones in order and list the result in order.

1. **[2 marks]** Does it matter if you use right or left shifts in task 1?

* Using LSL would count the number of ones in order and list the result in order.