

# Bit String Flicking

## 1. 02-03 C2 Bit String Flicking

Evaluate:  $(LCIRC-2 (RSHIFT-1 (10110 AND 11010)))$

## 2. 02-03 C2 Bit String Flicking

Evaluate:  $((RSHIFT-1 (NOT (LCIRC-1 10110))) OR (NOT (LCIRC-1 (RSHIFT-1 01001))))$

## 3. 03-04 C2 Bit String Flicking

Simplify the following expression:  $10110 OR 11000 AND NOT 00110$

## 4. 03-04 C2 Bit String Flicking

Simplify the following expression:  $(LSHIFT-2 (RCIRC-1 (LSHIFT-2 (LCIRC-3 01101))))$

## 5. 04-05 C2 Bit String Flicking

Evaluate the following expression:  $(LSHIFT-2 (RCIRC-1 (NOT 01010)))$

## 6. 04-05 C2 Bit String Flicking

Evaluate the following expression:  $(LCIRC-2 01101) OR (RSHIFT-1 10110) AND (NOT 11011)$

## 7. 05-06 C2 Bit String Flicking

REV-S,L defines a new operation on bit strings as follows: Create a sub-string starting at position S and with a length of L and reverse the bits of that sub-string. Ex. REV - 1,4 1101 becomes 1011.

If  $X = 01101101$ , evaluate:  $(LSHIFT-3 X) OR (RCIRC-4 X) AND (REV-2,3 X)$

## 8. 05-06 C2 Bit String Flicking

Evaluate the following expression:  $(LCIRC-3 (RSHIFT-1 01101))$

**9. 06-07 C2 Bit String Flicking**

Evaluate: (00101 OR 01011 AND 10110 XOR 01110 OR 11011 AND 10110)

**10. 06-07 C2 Bit String Flicking**

Evaluate: (NOT (LSHIFT-2 (RCIRC-1 01101 )))

**11. 07-08 C2 Bit String Flicking**

Evaluate: (RSHIFT-2 (LCIRC-1 01101))

**12. 07-08 C2 Bit String Flicking**

Evaluate the following expression: (NOT 01101 OR 01101 AND 10110)

**13. 08-09 C2 Bit String Flicking**

Evaluate the following expression: (RSHIFT-3 (LCIRC-2 (NOT 10110)))

**14. 08-09 C2 Bit String Flicking**

Evaluate the following expression: (10110 OR 01100) AND (11001 XOR 10110)

**15. 09-10 C2 Bit String Flicking**

Evaluate the following expression: (LCIRC-2(RSHIFT-1(RCIRC-1 01101)))

**16. 09-10 C2 Bit String Flicking**

Evaluate the following expression: NOT 10110 OR 01110 AND 10101

**17. 10-11 C2 Bit String Flicking**

Evaluate the following expression:  
(RSHIFT-1 (LCIRC-2 (LSHIFT-3 (RCIRC-1 (NOT 10011))))))

18. **10-11 C2 Bit String Flicking**

Evaluate the following expression: 01110 OR 01100 AND 10110

19. **11-12 C2 Bit String Flicking**

Evaluate the following: (LSHIFT-2 01101) AND (RCIRC-1 10100)

20. **11-12 C2 Bit String Flicking**

Evaluate the following: (RSHIFT-1 (LCIRC-2 (NOT 01101)))

21. **12-13 C2 Bit String Flicking**

Evaluate the following expression: (NOT (01101 OR 01011)) AND ( 01101 OR 00101)

22. **12-13 C2 Bit String Flicking**

Evaluate the following expression: (LCIRC-2 (RSHIFT – 1 (RCIRC – 1 (LSHIFT – 1 01101))))

23. **13-14 C2 Bit String Flicking**

Evaluate the following: 00101 OR NOT 10101 AND 10010

24. **13-14 C2 Bit String Flicking**

Evaluate the following: ( LCIRC – 2 ( RSHIFT – 1 ( NOT 01101 ) ) )

25. **14-15 C2 Bit String Flicking**

Evaluate the following: (NOT 10011) AND 01001 OR (01110 AND 01111)

26. **14-15 C2 Bit String Flicking**

Evaluate the following: ( LSHIFT-1 01101) AND (RCIRC-2 11100)