

$$DA = 1101 \quad 1010$$

$$F4 = 1111 \quad 0100$$

$$B9 = 1011 \quad 1001$$

$$LK = 1111 \quad RK = 0100$$

$$LT = 1101 \quad BT = 1010$$

$$1111 \text{ xor } 1010 = 0101 = LC$$

$$0100 \text{ xor } 1101 = 1001 = RC$$

$$\underline{H1 = 59}$$

$$0101 \quad 1001$$

$$g(H1) = 1010 - 0110$$

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$$LK = 10 \quad RK = 10$$

$$LK = 01 \quad RK = 00$$

$$\underline{H2 = 0010}$$

$$01 \text{ xor } 01 = 00$$

$$00 \text{ xor } 10 = 10$$

$$LK = 0101 \quad RK = 1001$$

$$LT = 1011 \quad BT = 1001$$

$$0101 \text{ xor } 1001$$

$$1100$$

$$1001 \text{ xor } 1011$$

$$0010$$

$$1100 // 0010$$

$$H = \boxed{C2}$$