

```
; local include files  
;     none
```

```
;table is in the code segment  
.cseg
```

```
; BlackHexagonRotation
;
; Description:      This is the table of rotations of the black hexagon for
;                   the Hexer game.  Each entry consists of the current
;                   active high bit pattern for the black hexagon and that
;                   pattern after a single rotation.  The black hexagon is
;                   rotated clockwise.  Each pattern includes only the black
;                   hexagon LEDs and is output as a word in binary with the
;                   bits in the order expected by the DisplayGameLEDs
;                   function.
;
; Notes:           READ ONLY tables should always be in the code segment so
;                   that in a standalone system it will be located in the
;                   ROM with the code.
;
; Author:          auto-generated
; Last Modified:   June 14, 2023
```

BlackHexagonRotation:

```
.DW    0b0000000000000000, 0b0000000000000000  
.DW    0b0000010000000000, 0b0010000000000000  
.DW    0b0010000000000000, 0b0001000000000000  
.DW    0b0010010000000000, 0b0010100000000000  
.DW    0b0000100000000000, 0b0000000000001000
```

```
; BlueHexagonRotation  
;
```

```
; Description: This is the table of rotations of the blue hexagon for
;                               the Hexer game. Each entry consists of the current
;                               active high bit pattern for the blue hexagon and that
;                               pattern after a single rotation. The blue hexagon is
;                               rotated counter-clockwise. Each pattern includes only
;                               the blue hexagon LEDs and is output as a word in binary
;                               with the bits in the order expected by the
;                               DisplayGameLEDs function.
;
; Notes:      READ ONLY tables should always be in the code segment so
;                               that in a standalone system it will be located in the
;                               ROM with the code.
;
; Author:     auto-generated
; Last Modified: June 14, 2023
```

## BlueHexagonRotation:

```
.DW    0b0000001101000101, 0b000000101100101
.DW    0b000000100010000, 0b000000110000000
.DW    0b000000110010000, 0b000000110000001
.DW    0b0000001000100001, 0b000000110100000
.DW    0b0000001100100001, 0b0000001101000001
.DW    0b000000100110000, 0b0000001100000100
.DW    0b000000110110000, 0b0000001100000101
.DW    0b0000001001100001, 0b0000001101000100
.DW    0b0000001101100001, 0b0000001101000101
.DW    0b0000001000100100, 0b0000001100100000
.DW    0b0000001100100100, 0b0000001100100001
.DW    0b0000001000100101, 0b0000001101100000
.DW    0b0000001100100101, 0b0000001101100001
.DW    0b0000001001100100, 0b00000011001000100
.DW    0b0000001101100100, 0b00000011001000101
.DW    0b00000010001100101, 0b00000011011000100
.DW    0b00000011011000101, 0b00000011011000101
```

```
; GreenTriangleRotation
;
; Description: This is the table of rotations of the green triangle for
;               the Hexer game. Each entry consists of the current
;               active high bit pattern for the green triangle and that
;               pattern after a single rotation. The green triangle is
;               rotated counter-clockwise. Each pattern includes only
;               the green triangle LEDs and is output as a word in
;               binary with the bits in the order expected by the
;               DisplayGameLEDs function.
;
; Notes:      READ ONLY tables should always be in the code segment so
;             that in a standalone system it will be located in the
;             ROM with the code.
;
; Author:     auto-generated
; Last Modified: June 14, 2023
```

#### GreenTriangleRotation:

```
.DW    0b0000000000000000, 0b0000000000000000
.DW    0b0000000000001000, 0b0000000010000000
.DW    0b0000000010000000, 0b1000000000000000
.DW    0b0000000010010000, 0b1000000010000000
.DW    0b1000000000000000, 0b0010000000000000
.DW    0b1000000000001000, 0b0010000010000000
.DW    0b1000000010000000, 0b1010000000000000
.DW    0b1000000010010000, 0b1010000010000000
.DW    0b0010000000000000, 0b0000010000000000
.DW    0b0010000000001000, 0b0000010010000000
.DW    0b0010000010000000, 0b1000010000000000
.DW    0b0010000010010000, 0b1000010010000000
.DW    0b1010000000000000, 0b0010010000000000
.DW    0b1010000000001000, 0b0010010010000000
.DW    0b1010000010000000, 0b1010010000000000
.DW    0b1010000010010000, 0b1010010010000000
.DW    0b0000010000000000, 0b0000001000000000
.DW    0b0000010000001000, 0b0000001010000000
.DW    0b0000010001000000, 0b1000001000000000
.DW    0b0000010001001000, 0b1000001010000000
.DW    0b1000010000000000, 0b0010001000000000
.DW    0b1000010000001000, 0b0010001010000000
.DW    0b1000010001000000, 0b1010001000000000
.DW    0b1000010001001000, 0b1010001010000000
```

.DW 0b0010010000000000, 0b0000011000000000  
.DW 0b00100100001000, 0b0000011010000000  
.DW 0b0010010010000000, 0b1000011000000000  
.DW 0b0010010010010000, 0b1000011010000000  
.DW 0b1010010000000000, 0b0010011000000000  
.DW 0b10100100001000, 0b0010011010000000  
.DW 0b1010010010000000, 0b1010011000000000  
.DW 0b1010010010010000, 0b1010011010000000  
.DW 0b0000001000000000, 0b0000000100000000  
.DW 0b0000001000010000, 0b0000000110000000  
.DW 0b0000001010000000, 0b1000000100000000  
.DW 0b0000001010010000, 0b1000000110000000  
.DW 0b1000001000000000, 0b0010000100000000  
.DW 0b1000001000010000, 0b0010000110000000  
.DW 0b1000001010000000, 0b1010000100000000  
.DW 0b1000001010010000, 0b1010000110000000  
.DW 0b0010001000000000, 0b0000001010000000  
.DW 0b0010001000010000, 0b0000001011000000  
.DW 0b0010001010000000, 0b1000010100000000  
.DW 0b0010001010010000, 0b1000010110000000  
.DW 0b1010001000000000, 0b0010010100000000  
.DW 0b1010001000010000, 0b0010010110000000  
.DW 0b1010001010000000, 0b1010010100000000  
.DW 0b1010001010010000, 0b1010010110000000  
.DW 0b0000011000000000, 0b0000001100000000  
.DW 0b0000011000010000, 0b0000001110000000  
.DW 0b0000011010000000, 0b1000001100000000  
.DW 0b0000011101001000, 0b1000001110000000  
.DW 0b1000011000000000, 0b0010001100000000  
.DW 0b1000011000010000, 0b0010001110000000  
.DW 0b1000011010000000, 0b1010001100000000  
.DW 0b1000011010010000, 0b1010001110000000  
.DW 0b0010011010001000, 0b1000011110000000  
.DW 0b1010011000000000, 0b0010011110000000  
.DW 0b1010011000010000, 0b0010011111000000  
.DW 0b1010011010000000, 0b1010011110000000  
.DW 0b1010011010010000, 0b1010011111000000  
.DW 0b0000000100000000, 0b0000000000000010  
.DW 0b0000000100010000, 0b0000000010000010  
.DW 0b0000000110000000, 0b1000000000000010  
.DW 0b0000000110010000, 0b1000000010000010  
.DW 0b1000000100000000, 0b0010000000000010  
.DW 0b1000000100010000, 0b0010000010000010  
.DW 0b1000000110000000, 0b1010000000000010  
.DW 0b1000000110010000, 0b1010000010000010  
.DW 0b0010000100000000, 0b0000001000000010  
.DW 0b0010000100010000, 0b1000001000000010  
.DW 0b0010000110000000, 0b1000001001000010  
.DW 0b1010000100000000, 0b0010010000000010  
.DW 0b1010000100010000, 0b0010010010000010  
.DW 0b0000001010000000, 0b0000001000000010  
.DW 0b0000001011000000, 0b1000001000000010  
.DW 0b000000101110010000, 0b1000001010000010  
.DW 0b1000001010000000, 0b0010001000000010  
.DW 0b1000001010001000, 0b0010001010000010  
.DW 0b1000001011000000, 0b1010001000000010  
.DW 0b1000001011001000, 0b1010001010000010  
.DW 0b0010001010001000, 0b0000001100000010

.DW 0b0010010100010000, 0b0000011010000010  
.DW 0b0010010110000000, 0b1000011000000010  
.DW 0b0010010110010000, 0b1000011010000010  
.DW 0b1010010100000000, 0b0010011000000010  
.DW 0b1010010100010000, 0b0010011010000010  
.DW 0b1010010110000000, 0b1010011000000010  
.DW 0b1010010110010000, 0b1010011010000010  
.DW 0b0000001100000000, 0b0000001000000010  
.DW 0b0000001100010000, 0b0000001100000010  
.DW 0b0000001110000000, 0b1000001000000010  
.DW 0b0000001110010000, 0b1000001100000010  
.DW 0b1000001100000000, 0b0010000100000010  
.DW 0b1000001100010000, 0b0010000110000010  
.DW 0b1000001110000000, 0b1010000100000010  
.DW 0b1000001110010000, 0b1010000110000010  
.DW 0b0010001100000000, 0b0000010100000010  
.DW 0b0010001100010000, 0b0000010110000010  
.DW 0b0010001110000000, 0b1000010100000010  
.DW 0b0010001110010000, 0b1000010110000010  
.DW 0b1010001100000000, 0b0010001010000010  
.DW 0b1010001100010000, 0b00100010110000010  
.DW 0b1010001110000000, 0b1010001010000010  
.DW 0b1010001110010000, 0b10100010110000010  
.DW 0b0000011100000000, 0b0000001100000010  
.DW 0b0000001110001000, 0b0000001110000010  
.DW 0b0000001111000000, 0b1000001100000010  
.DW 0b0000001111001000, 0b1000001110000010  
.DW 0b1000001110000000, 0b0010000110000010  
.DW 0b1000001110001000, 0b00100001110000010  
.DW 0b1000001111000000, 0b1010000110000010  
.DW 0b1000001111001000, 0b10100001110000010  
.DW 0b0010001110000000, 0b0000001110000010  
.DW 0b0010001110001000, 0b0000001111000010  
.DW 0b0010001111000000, 0b1000001110000010  
.DW 0b0010001111001000, 0b10000011110000010  
.DW 0b1010001110000000, 0b0010001110000010  
.DW 0b1010001110001000, 0b00100011110000010  
.DW 0b1010001111000000, 0b00100011110000010  
.DW 0b1010001111001000, 0b00100011110000010  
.DW 0b1010001111000000, 0b10100011110000010  
.DW 0b1010001111001000, 0b10100011110000010  
.DW 0b0000000000000010, 0b00000000000000100  
.DW 0b0000000000000010, 0b00000000000000100  
.DW 0b0000000000000010, 0b10000000000000100  
.DW 0b1000000000000010, 0b10000000000000100  
.DW 0b1000000000000010, 0b00100000000000100  
.DW 0b1000000000000010, 0b00100000000000100  
.DW 0b1000000000000010, 0b10100000000000100  
.DW 0b1000000000000010, 0b10100000000000100  
.DW 0b0010000000000010, 0b00000100000000100  
.DW 0b0010000000000010, 0b00000100100000100  
.DW 0b0010000000000010, 0b100000100100000100  
.DW 0b1010000000000010, 0b00100100000000100  
.DW 0b1010000000000010, 0b10100100000000100  
.DW 0b1010000000000010, 0b101001000100000100  
.DW 0b0000010000000010, 0b00000010000000100  
.DW 0b0000010000000010, 0b00000010100000100  
.DW 0b0000010010000010, 0b10000010000000100  
.DW 0b1000010000000010, 0b00100010000000100  
.DW 0b1000010000000010, 0b00100010100000100  
.DW 0b1000010000000010, 0b10100010000000100  
.DW 0b1000010000000010, 0b10100010100000100  
.DW 0b0010010000000010, 0b00000110000000100  
.DW 0b0010010000000010, 0b00000110100000100

.DW 0b0010010010000010, 0b1000011000000100  
.DW 0b0010010010010010, 0b10000110100000100  
.DW 0b1010010000000010, 0b00100110000000100  
.DW 0b10100100000010010, 0b00100110100000100  
.DW 0b1010010010000010, 0b10100110000000100  
.DW 0b1010010010010010, 0b10100110100000100  
.DW 0b0000001000000010, 0b00000001000000100  
.DW 0b00000010000010010, 0b00000001100000100  
.DW 0b0000001010000010, 0b10000001000000100  
.DW 0b0000001010010010, 0b10000001100000100  
.DW 0b1000001000000010, 0b00100001000000100  
.DW 0b10000010000010010, 0b00100001100000100  
.DW 0b1000001010000010, 0b10100001000000100  
.DW 0b1000001010010010, 0b10100001100000100  
.DW 0b0010001000000010, 0b00000010100000100  
.DW 0b00100010000010010, 0b00000010110000100  
.DW 0b0010001010000010, 0b10000101000000100  
.DW 0b0010001010010010, 0b10000101100000100  
.DW 0b1010001000000010, 0b00100101000000100  
.DW 0b10100010000010010, 0b00100101100000100  
.DW 0b0000011000000010, 0b00000011000000100  
.DW 0b00000110000010010, 0b00000011100000100  
.DW 0b0000011010000010, 0b10000011000000100  
.DW 0b0000011010010010, 0b10000011100000100  
.DW 0b1000011000000010, 0b00100011000000100  
.DW 0b10000110000010010, 0b00100011100000100  
.DW 0b1000011010000010, 0b10100011000000100  
.DW 0b1000011010010010, 0b10100011100000100  
.DW 0b0010011000000010, 0b00000011100000100  
.DW 0b0010011010000010, 0b10000111000000100  
.DW 0b0010011010010010, 0b10000111100000100  
.DW 0b10100110000010010, 0b00100111100000100  
.DW 0b1010011010000010, 0b101001111000000100  
.DW 0b1010011010010010, 0b101001111100000100  
.DW 0b0000000100000010, 0b00000000000000110  
.DW 0b0000000100010010, 0b00000001000000110  
.DW 0b0000000110000010, 0b10000000000000110  
.DW 0b0000000110010010, 0b10000000100000110  
.DW 0b1000000100000010, 0b00100000000000110  
.DW 0b1000000100010010, 0b00100000100000110  
.DW 0b1000000110000010, 0b10100000000000110  
.DW 0b1000000110010010, 0b10100000100000110  
.DW 0b0010000100000010, 0b00000010000000110  
.DW 0b0010000100010010, 0b00000010010000110  
.DW 0b0010000110000010, 0b10000010000000110  
.DW 0b0010000110010010, 0b10000010010000110  
.DW 0b1010000100000010, 0b00100100000000110  
.DW 0b1010000100010010, 0b00100100100000110  
.DW 0b1010000110000010, 0b10100100000000110  
.DW 0b1010000110010010, 0b10100100100000110  
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.DW 0b00000010100010010, 0b00000010100000110  
.DW 0b00000010110000010, 0b10000010000000110  
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.DW 0b1000010100000010, 0b00100010000000110  
.DW 0b1000010100010010, 0b00100010100000110  
.DW 0b1000010110000010, 0b10100010000000110  
.DW 0b1000010110010010, 0b10100010100000110  
.DW 0b0010001010000010, 0b00000011000000110  
.DW 0b00100010100010010, 0b00000011010000110  
.DW 0b0010001010010010, 0b10000011000000110







.DW 0b1010010010000110, 0b1010011000010100  
.DW 0b1010010010010110, 0b1010011010010100  
.DW 0b0000001000000110, 0b0000000100010100  
.DW 0b0000001000010110, 0b0000000110010100  
.DW 0b0000001010000110, 0b1000000100010100  
.DW 0b0000001010010110, 0b1000000110010100  
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.DW 0b1000001000010110, 0b0010000110010100  
.DW 0b1000001010000110, 0b1010000100010100  
.DW 0b1000001010010110, 0b1010000110010100  
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.DW 0b0010001000010110, 0b00000010110010100  
.DW 0b0010001010000110, 0b1000010100010100  
.DW 0b0010001010010110, 0b10000101100010100  
.DW 0b1010001000000110, 0b0010010100010100  
.DW 0b1010001000010110, 0b00100101100010100  
.DW 0b1010001010000110, 0b0000001100010100  
.DW 0b0000011000000110, 0b00000011100010100  
.DW 0b0000011010000110, 0b1000001100010100  
.DW 0b0000011010010110, 0b10000011100010100  
.DW 0b1000011000000110, 0b0010001100010100  
.DW 0b1000011000010110, 0b00100011100010100  
.DW 0b1000011010000110, 0b1010001100010100  
.DW 0b1000011010010110, 0b10100011100010100  
.DW 0b0010011000000110, 0b00000011100010100  
.DW 0b0010011010000110, 0b00000011110010100  
.DW 0b0010011010010110, 0b100000111100010100  
.DW 0b0010011010000110, 0b100000111100010100  
.DW 0b1010011000000110, 0b0010011100010100  
.DW 0b1010011010000110, 0b1010011100010100  
.DW 0b1010011010010110, 0b10100111100010100  
.DW 0b0000000100000110, 0b00000000000010110  
.DW 0b0000000100010110, 0b00000000000010110  
.DW 0b0000000110000110, 0b10000000000010110  
.DW 0b1000000100000110, 0b00100000000010110  
.DW 0b1000000100010110, 0b00100000000010110  
.DW 0b1000000110000110, 0b10100000000010110  
.DW 0b1000000110010110, 0b10100000000010110  
.DW 0b0010000100000110, 0b00000010000010110  
.DW 0b0010000100010110, 0b00000010010010110  
.DW 0b0010000110000110, 0b10000010000010110  
.DW 0b0010000110010110, 0b10000010010010110  
.DW 0b1010000100000110, 0b00100010000010110  
.DW 0b1010000100010110, 0b00100010010010110  
.DW 0b1010000110000110, 0b10100001000010110  
.DW 0b1010000110010110, 0b101000010010010110  
.DW 0b0000010100000110, 0b00000010000010110  
.DW 0b0000010100010110, 0b00000010100010110  
.DW 0b0000010110000110, 0b10000010000010110  
.DW 0b0000010110010110, 0b10000010100010110  
.DW 0b1000010100000110, 0b00100010000010110  
.DW 0b1000010100010110, 0b00100010100010110  
.DW 0b1000010110000110, 0b10100010000010110  
.DW 0b1000010110010110, 0b10100010100010110  
.DW 0b0010010100000110, 0b00000011000010110  
.DW 0b0010010100010110, 0b00000011010010110  
.DW 0b0010010110000110, 0b10000011000010110  
.DW 0b0010010110010110, 0b10000011010010110  
.DW 0b1010001010000110, 0b00100011000010110  
.DW 0b1010001010010110, 0b00100011000010110  
.DW 0b1010001010000110, 0b00100011010010110  
.DW 0b1010001010010110, 0b00100011010010110

```

.DW    0b1010010110010110, 0b1010011010010110
.DW    0b0000001100000110, 0b0000000100010110
.DW    0b0000001100010110, 0b0000000110010110
.DW    0b0000001110000110, 0b1000000100010110
.DW    0b0000001110010110, 0b1000000110010110
.DW    0b1000001100000110, 0b0010000100010110
.DW    0b1000001100010110, 0b0010000110010110
.DW    0b1000001110000110, 0b1010000100010110
.DW    0b1000001110010110, 0b1010000110010110
.DW    0b0010001100000110, 0b00000010100010110
.DW    0b0010001100010110, 0b00000010110010110
.DW    0b0010001110000110, 0b1000010100010110
.DW    0b0010001110010110, 0b1000010110010110
.DW    0b1010001110000110, 0b0010010100010110
.DW    0b1010001110010110, 0b0010010110010110
.DW    0b1010001110000110, 0b1010010100010110
.DW    0b1010001110010110, 0b1010010110010110
.DW    0b0000011100000110, 0b0000001100010110
.DW    0b0000011100010110, 0b0000001110010110
.DW    0b0000011110000110, 0b1000001100010110
.DW    0b0000011110010110, 0b1000001110010110
.DW    0b1000011100000110, 0b0010001100010110
.DW    0b1000011100010110, 0b0010001110010110
.DW    0b10000111000010110, 0b1010001100010110
.DW    0b100001110010110, 0b1010001110010110
.DW    0b00100011110000110, 0b00000011100010110
.DW    0b001000111100010110, 0b00000011110010110
.DW    0b0010001111000010110, 0b000000111100010110
.DW    0b00100011110010110, 0b000000111100010110
.DW    0b101000111100000110, 0b001000111100010110
.DW    0b101000111100010110, 0b001000111100010110
.DW    0b101000111100000110, 0b001000111100010110
.DW    0b101000111100010110, 0b001000111100010110

```

```

; RedTriangleRotation
;
; Description:      This is the table of rotations of the red triangle for
;                   the Hexer game.  Each entry consists of the current
;                   active high bit pattern for the red triangle and that
;                   pattern after a single rotation.  The red triangle is
;                   rotated clockwise.  Each pattern includes only the red
;                   triangle LEDs and is output as a word in binary with
;                   the bits in the order expected by the DisplayGameLEDs
;                   function.
;
; Notes:            READ ONLY tables should always be in the code segment so
;                   that in a standalone system it will be located in the
;                   ROM with the code.
;
; Author:           auto-generated
; Last Modified:   June 14, 2023

```

#### RedTriangleRotation:

```

.DW    0b0000000000000000, 0b0000000000000000
.DW    0b0100000000000000, 0b0000010000000000
.DW    0b0000010000000000, 0b1000000000000000
.DW    0b0100010000000000, 0b1000010000000000
.DW    0b1000000000000000, 0b0000000000001000
.DW    0b1100000000000000, 0b0000010000001000
.DW    0b1000010000000000, 0b1000000000001000
.DW    0b1100010000000000, 0b0000010000001000

```

.DW 0b000000000000001000, 0b0000000010000000  
.DW 0b0100000000001000, 0b0000010010000000  
.DW 0b0000010000001000, 0b1000000010000000  
.DW 0b0100010000001000, 0b1000010010000000  
.DW 0b1000000000001000, 0b0000000010001000  
.DW 0b1100000000001000, 0b0000010010001000  
.DW 0b1000010000001000, 0b1000000010001000  
.DW 0b1100010000001000, 0b1000010010001000  
.DW 0b0000000010000000, 0b00000000000000100  
.DW 0b0100000010000000, 0b00000100000000100  
.DW 0b0000010010000000, 0b10000000000000100  
.DW 0b0100010010000000, 0b10000100000000100  
.DW 0b1000000010000000, 0b000000000000001100  
.DW 0b1100000010000000, 0b000001000000001100  
.DW 0b1000010010000000, 0b100000000000001100  
.DW 0b1100010010000000, 0b100001000000001100  
.DW 0b0000000010001000, 0b0000000010000100  
.DW 0b0100000010001000, 0b0000010010000100  
.DW 0b0000010010001000, 0b1000000010000100  
.DW 0b0100010010001000, 0b1000010010000100  
.DW 0b1000000010001000, 0b0000000010001100  
.DW 0b1100000010001000, 0b0000010010001100  
.DW 0b1000010010001000, 0b1000000010001100  
.DW 0b1100010010001000, 0b1000010010001100  
.DW 0b00000000000000100, 0b0000000001000000  
.DW 0b01000000000000100, 0b0000010001000000  
.DW 0b00000100000000100, 0b1000000001000000  
.DW 0b01000100000000100, 0b1000010001000000  
.DW 0b10000000000000100, 0b0000000001000000  
.DW 0b11000000000000100, 0b0000000001000000  
.DW 0b10000100000000100, 0b1000000000100000  
.DW 0b11000100000000100, 0b1000010000100000  
.DW 0b000000000000001100, 0b0000000001100000  
.DW 0b010000000000001100, 0b0000010011000000  
.DW 0b000000000000001100, 0b10000000011000000  
.DW 0b010001000000001100, 0b1000010011000000  
.DW 0b100000000000001100, 0b0000000001100000  
.DW 0b110000000000001100, 0b0000010011000000  
.DW 0b100001000000001100, 0b1000000001100000  
.DW 0b110001000000001100, 0b1000010011000000  
.DW 0b000000000000001000, 0b0000000000100000  
.DW 0b010000000000001000, 0b0000010001000000  
.DW 0b000000000000001000, 0b1000000001000000  
.DW 0b010001000000001000, 0b1000010001000000  
.DW 0b100000000000001000, 0b0000000001000000  
.DW 0b110000000000001000, 0b0000010001000000  
.DW 0b100001000000001000, 0b1000000001000000  
.DW 0b110001000000001000, 0b1000010001000000  
.DW 0b000000000000001100, 0b0000000001100000  
.DW 0b010000000000001100, 0b0000010011000000  
.DW 0b000000000000001100, 0b10000000011000000  
.DW 0b010001000000001100, 0b1000010011000000  
.DW 0b100000000000001100, 0b0000000001100000  
.DW 0b110000000000001100, 0b0000010001100000  
.DW 0b100001000000001100, 0b1000000001100000  
.DW 0b110001000000001100, 0b1000010011000000  
.DW 0b000000000000001000, 0b0000000000000010  
.DW 0b010000000000001000, 0b0000010000000010  
.DW 0b010001000000001000, 0b1000010000000010  
.DW 0b100000000000001000, 0b000000000000001010  
.DW 0b110000000000001000, 0b000001000000001010  
.DW 0b100001000000001000, 0b100000000000001010  
.DW 0b110000000000001000, 0b000000000000001010





.DW 0b0100010001001010, 0b1000011010000010  
.DW 0b1000000001001010, 0b0000001010001010  
.DW 0b1100000001001010, 0b0000011010001010  
.DW 0b1000010001001010, 0b1000001010001010  
.DW 0b1100010001001010, 0b1000011010001010  
.DW 0b0000000011000010, 0b0000001000000110  
.DW 0b0100000011000010, 0b0000011000000110  
.DW 0b00000010011000010, 0b1000001000000110  
.DW 0b0100010011000010, 0b1000011000000110  
.DW 0b1000000011000010, 0b0000001000001110  
.DW 0b1100000011000010, 0b0000011000001110  
.DW 0b1000010011000010, 0b1000001000001110  
.DW 0b1100010011000010, 0b1000011000001110  
.DW 0b0000000011001010, 0b0000001010000110  
.DW 0b0100000011001010, 0b00000011010000110  
.DW 0b1000000011001010, 0b0000001010001110  
.DW 0b1100000011001010, 0b00000011010001110  
.DW 0b10000010011001010, 0b1000001010000110  
.DW 0b0100010011001010, 0b10000011010000110  
.DW 0b1000000011001010, 0b0000001010001110  
.DW 0b1100000011001010, 0b00000011010001110  
.DW 0b100000001000110, 0b0000001001000010  
.DW 0b010000001000110, 0b0000011001000010  
.DW 0b0000001000110, 0b1000001001000010  
.DW 0b0100010001000110, 0b10000011001000010  
.DW 0b1000000001000110, 0b0000001001001010  
.DW 0b1100000001000110, 0b00000011001001010  
.DW 0b1000000001000110, 0b1000001001001010  
.DW 0b1100000001000110, 0b1000001101001010  
.DW 0b0000000001000110, 0b0000001011000010  
.DW 0b0100000001000110, 0b00000011011000010  
.DW 0b0000001000100110, 0b1000001011000010  
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.DW 0b100000000100110, 0b00000010110001010  
.DW 0b110000000100110, 0b00000011011001010  
.DW 0b100000000100110, 0b10000010110001010  
.DW 0b110000000100110, 0b10000011011001010  
.DW 0b000000000100110, 0b0000001011000110  
.DW 0b010000000100110, 0b0000001101100110  
.DW 0b0000001000100110, 0b1000001001000110  
.DW 0b010000000100110, 0b10000011001000110  
.DW 0b100000000100110, 0b0000001001001010  
.DW 0b110000000100110, 0b00000011001001010  
.DW 0b100000000100110, 0b1000001001001010  
.DW 0b110000000100110, 0b1000001101001010  
.DW 0b000000000100110, 0b0000001011000110  
.DW 0b010000000100110, 0b0000001101100110  
.DW 0b0000001000100110, 0b1000001001000110  
.DW 0b00000001000100110, 0b10000011001000110  
.DW 0b010001000100110, 0b1000001011000110  
.DW 0b100000000100110, 0b0000001001001110  
.DW 0b110000000100110, 0b00000011001001110  
.DW 0b100000000100110, 0b1000001001001110  
.DW 0b110000000100110, 0b1000001101001110  
.DW 0b100000000100110, 0b1000001011001110  
.DW 0b110000000100110, 0b1000001101100110  
.DW 0b0000000001000100, 0b010000000000000000  
.DW 0b0100000001000100, 0b010001000000000000  
.DW 0b1100000001000100, 0b010001000000000000  
.DW 0b1000000001000100, 0b110000000000000000  
.DW 0b000000011000000000, 0b110000000000000000  
.DW 0b01000000011000000000, 0b110000000000000000  
.DW 0b10000000010000000000, 0b010000000000000000  
.DW 0b11000000010000000000, 0b010001000000000000  
.DW 0b10000000010000000000, 0b110000000000000000  
.DW 0b11000000010000000000, 0b110001000000000000  
.DW 0b000000010000000000, 0b010000000000000000  
.DW 0b01000000010000000000, 0b010001000000000000  
.DW 0b11000000010000000000, 0b010001000000000000  
.DW 0b000000011000000000, 0b010000000000000000  
.DW 0b01000000011000000000, 0b010001000000000000  
.DW 0b11000000011000000000, 0b010001000000000000

.DW 0b1000001000001000, 0b010000010001000  
.DW 0b1100001000001000, 0b0100010010001000  
.DW 0b1000011000001000, 0b1100000010001000  
.DW 0b1100011000001000, 0b1100010010001000  
.DW 0b0000001010000000, 0b0100000000000100  
.DW 0b0100001010000000, 0b0100010000000100  
.DW 0b0000011010000000, 0b1100000000000100  
.DW 0b0100011010000000, 0b1100010000000100  
.DW 0b1000001010000000, 0b0100000000001100  
.DW 0b1100001010000000, 0b0100010000001100  
.DW 0b1000011010000000, 0b1100000000001100  
.DW 0b1100011010000000, 0b1100010000001100  
.DW 0b0000001010001000, 0b0100000010000100  
.DW 0b0100001010001000, 0b0100010010000100  
.DW 0b0000011010001000, 0b1100000010000100  
.DW 0b0100011010001000, 0b1100010010000100  
.DW 0b1000001010001000, 0b0100000010001100  
.DW 0b1100001010001000, 0b0100010010001100  
.DW 0b1000011010001000, 0b1100000010001100  
.DW 0b1100011010001000, 0b1100010010001100  
.DW 0b0000001000000100, 0b0100000001000000  
.DW 0b0100001000000100, 0b0100010001000000  
.DW 0b0000011000000100, 0b1100000001000000  
.DW 0b0100011000000100, 0b1100010001000000  
.DW 0b1000001000000100, 0b0100000001001000  
.DW 0b1100001000000100, 0b0100010001001000  
.DW 0b1000011000000100, 0b1100000001001000  
.DW 0b1100011000000100, 0b1100010001001000  
.DW 0b00000011000000100, 0b0100000001100000  
.DW 0b0100001000000100, 0b0100010001000000  
.DW 0b0000011000000100, 0b1100000001000000  
.DW 0b0100011000000100, 0b1100010001000000  
.DW 0b1000001000000100, 0b0100000001100000  
.DW 0b1100001000000100, 0b0100010001100000  
.DW 0b1000011000000100, 0b0100000001100000  
.DW 0b1100011000000100, 0b0100010001100000  
.DW 0b0000001000000100, 0b0100000001100000  
.DW 0b0100001000000100, 0b0100010001100000  
.DW 0b0000011000000100, 0b1100000001100000  
.DW 0b0100011000000100, 0b1100010001100000  
.DW 0b1000001000000100, 0b0100000001100000  
.DW 0b1100001000000100, 0b0100010001100000  
.DW 0b1000011000000100, 0b0100000001100000  
.DW 0b1100011000000100, 0b0100010001100000  
.DW 0b0000001000000100, 0b0100000001100000  
.DW 0b0100001000000100, 0b0100010001100000  
.DW 0b0000011000000100, 0b1100000001100000  
.DW 0b0100011000000100, 0b1100010001100000  
.DW 0b1000001000000100, 0b0100000001100000  
.DW 0b1100001000000100, 0b0100010001100000  
.DW 0b0000001001000000, 0b0100000000000100  
.DW 0b0100001001000000, 0b0100010000000100  
.DW 0b1000001001000000, 0b01000000000001010  
.DW 0b1100001001000000, 0b01000100000001010  
.DW 0b0000001001000100, 0b01000000000001010  
.DW 0b0100001001000100, 0b01000100000001010  
.DW 0b0000001001000100, 0b11000000000001010  
.DW 0b0100001001000100, 0b11000100000001010



.DW 0b1000011000001010, 0b1100001010001000  
.DW 0b1100011000001010, 0b1100011010001000  
.DW 0b0000001010000010, 0b0100001000000100  
.DW 0b0100001010000010, 0b0100011000000100  
.DW 0b0000011010000010, 0b1100001000000100  
.DW 0b0100011010000010, 0b1100001100000100  
.DW 0b100001010000010, 0b0100011000000100  
.DW 0b1100001010000010, 0b0100011000000100  
.DW 0b1000011010000010, 0b1100001000000100  
.DW 0b11000011010000010, 0b1100011000000100  
.DW 0b0000001010001010, 0b0100001010000100  
.DW 0b0100001010001010, 0b0100011010000100  
.DW 0b0000011010001010, 0b1100001010000100  
.DW 0b0100011010001010, 0b11000011010000100  
.DW 0b100001010001010, 0b0100011010000100  
.DW 0b1100001010001010, 0b0100011010000100  
.DW 0b1000011010001010, 0b1100001010000100  
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.DW 0b0000001000000110, 0b0100001001000000  
.DW 0b0100001000000110, 0b0100011001000000  
.DW 0b1000001000000110, 0b01000010010001000  
.DW 0b1100001000000110, 0b01000110010001000  
.DW 0b1000011010000110, 0b11000010100001100  
.DW 0b11000011010000110, 0b110000110100001100  
.DW 0b00000010000001110, 0b0100001011000000  
.DW 0b01000010000001110, 0b0100011011000000  
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.DW 0b010000110000001110, 0b11000011011000000  
.DW 0b10000010000001110, 0b01000010110001000  
.DW 0b11000010000001110, 0b01000110110001000  
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.DW 0b010000101000001110, 0b01000110010001000  
.DW 0b0000001101000001110, 0b11000010010001000  
.DW 0b0100001101000001110, 0b110000110010001000  
.DW 0b100000101000001110, 0b01000010010001100  
.DW 0b110000101000001110, 0b01000110010001100  
.DW 0b100001101000001110, 0b11000010010001100  
.DW 0b1100001101000001110, 0b110000110100001100  
.DW 0b0000001010000011110, 0b0100001011000000  
.DW 0b0100001010000011110, 0b0100011011000000  
.DW 0b00000011010000011110, 0b1100001011000000  
.DW 0b01000011010000011110, 0b11000011011000000  
.DW 0b100000100000011110, 0b01000010110001000  
.DW 0b110000100000011110, 0b01000110110001000  
.DW 0b1000011010000011110, 0b11000010010001000  
.DW 0b11000011010000011110, 0b110000110100001100  
.DW 0b00000010100000111110, 0b0100001011000000  
.DW 0b01000010100000111110, 0b0100011011000000  
.DW 0b000000110100000111110, 0b1100001011000000  
.DW 0b010000110100000111110, 0b11000011011000000  
.DW 0b10000010100000111110, 0b01000010110001000  
.DW 0b11000010100000111110, 0b01000110110001000  
.DW 0b10000110100000111110, 0b11000010010001000  
.DW 0b110000110100000111110, 0b110000110100001100  
.DW 0b00000010010000010, 0b0100001000000010  
.DW 0b01000010010000010, 0b0100011000000010  
.DW 0b00000011001000010, 0b1100001000000010  
.DW 0b01000011001000010, 0b1100001100000010  
.DW 0b10000010010000010, 0b0100001000000010  
.DW 0b11000010010000010, 0b0100011000000010  
.DW 0b10000110010000010, 0b1100001000000010  
.DW 0b11000011001000010, 0b1100001100000010  
.DW 0b00000010010000010, 0b0100001010000010  
.DW 0b01000010010000010, 0b0100011010000010  
.DW 0b00000011001000010, 0b1100001010000010  
.DW 0b01000011001000010, 0b1100001101000010  
.DW 0b10000010010000010, 0b0100001010000010  
.DW 0b11000010010000010, 0b0100011010000010  
.DW 0b10000110010000010, 0b1100001000000010  
.DW 0b11000011001000010, 0b1100001101000010

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.DW    0b1100011001001010, 0b1100011010001010
.DW    0b000001011000010, 0b0100001000000110
.DW    0b010001011000010, 0b0100011000000110
.DW    0b0000011011000010, 0b1100001000000110
.DW    0b0100011011000010, 0b11000011000000110
.DW    0b100001011000010, 0b01000010000001110
.DW    0b1100001011000010, 0b01000011000000110
.DW    0b1000011011000010, 0b1100001000000110
.DW    0b11000011011000010, 0b11000011000000110
.DW    0b0000001011001010, 0b0100001010000110
.DW    0b0100001011001010, 0b0100011010000110
.DW    0b00000011011001010, 0b1100001010000110
.DW    0b01000011011001010, 0b11000011010000110
.DW    0b1000001011001010, 0b01000010100001110
.DW    0b1100001011001010, 0b010000110100001110
.DW    0b10000011011001010, 0b11000010100001110
.DW    0b11000011011001010, 0b110000110000001110
.DW    0b0000001011001010, 0b01000010100001110
.DW    0b0100001011001010, 0b01000110100001110
.DW    0b00000011011001010, 0b11000010100001110
.DW    0b01000011011001010, 0b110000110100001110
.DW    0b1000001011001010, 0b010000101000011110
.DW    0b1100001011001010, 0b0100001101000011110
.DW    0b10000011011001010, 0b110000101000011110
.DW    0b11000011011001010, 0b110000110000001110
.DW    0b0000001001000110, 0b0100001001000010
.DW    0b0100001001000110, 0b0100011001000010
.DW    0b00000011001000110, 0b1100001001000010
.DW    0b01000011001000110, 0b11000011001000010
.DW    0b1000001001000110, 0b010000100100010
.DW    0b1100001001000110, 0b0100001100100010
.DW    0b10000011001000110, 0b110000100100010
.DW    0b11000011001000110, 0b1100001100100010
.DW    0b0000001001000110, 0b0100001011000010
.DW    0b0100001001000110, 0b0100011011000010
.DW    0b00000011001000110, 0b1100001011000010
.DW    0b0100001001000110, 0b0100011011000010
.DW    0b00000011001000110, 0b1100001011000010
.DW    0b0100001001000110, 0b0100011011000010
.DW    0b00000011001000110, 0b1100001001000110
.DW    0b01000011001000110, 0b11000011001000110
.DW    0b1000001001000110, 0b0100001001000110
.DW    0b1100001001000110, 0b01000011001000110
.DW    0b10000011001000110, 0b1100001001000110
.DW    0b11000011001000110, 0b11000011001000110
.DW    0b0000001011000110, 0b0100001011000010
.DW    0b0100001011000110, 0b0100011011000010
.DW    0b0000001101000110, 0b1100001011000010
.DW    0b0100001101000110, 0b0100011011000010
.DW    0b0000001101000110, 0b1100001011000010
.DW    0b0100001101000110, 0b0100011011000010
.DW    0b0000001101000110, 0b1100001001000110
.DW    0b0100001101000110, 0b11000011001000110
.DW    0b1000001011000110, 0b01000010110000110
.DW    0b1100001011000110, 0b01000011010000110
.DW    0b1000001101000110, 0b11000010110000110
.DW    0b1100001101000110, 0b11000011001000110
.DW    0b0000001011000110, 0b01000010110000110
.DW    0b0100001011000110, 0b01000110110000110
.DW    0b0000001101000110, 0b11000010110000110
.DW    0b0100001101000110, 0b01000110110000110
.DW    0b0000001101000110, 0b11000010010001110
.DW    0b0100001101000110, 0b110000110010001110
.DW    0b1000001011000110, 0b010000101100001110
.DW    0b1100001011000110, 0b010000110100001110
.DW    0b1000001101000110, 0b110000101100001110
.DW    0b1100001101000110, 0b110000110010001110
.DW    0b0000001011000110, 0b010000101100001110
.DW    0b0100001011000110, 0b010001101100001110
.DW    0b0000001101000110, 0b110000101100001110
.DW    0b0100001101000110, 0b010001101100001110
.DW    0b0000001101000110, 0b11000010010001110
.DW    0b0100001101000110, 0b110000110010001110
```

```
; ManualResetHighShift
;
; Description: This is the table of shifts of the high byte of the LEDs
;               for manually resetting the Hexer game. Each entry is
;               the active high bit pattern for the shifted pattern.
;               The table is indexed by the high byte of the current
;               pattern. The value from this table should be OR'ed with
;               the value from the ManualResetLowShift table to get the
;               complete shifted state. The output bits and high byte
;               used to index this table have the bits in the order
;               expected by the DisplayGameLEDs function.
;
```

```
; Notes:          READ ONLY tables should always be in the code segment so
;                      that in a standalone system it will be located in the
;                      ROM with the code.
;
; Author:         auto-generated
; Last Modified:  June 14, 2023
```

#### ManualResetHighShift:

```
.DW 0b0000000000000000
.DW 0b0000001000000000
.DW 0b0000010000000000
.DW 0b0000011000000000
.DW 0b0010000000000000
.DW 0b0010001000000000
.DW 0b0010010000000000
.DW 0b0010011000000000
.DW 0b0000000001000000
.DW 0b0000001001000000
.DW 0b0000010001000000
.DW 0b0000011001000000
.DW 0b0010000001000000
.DW 0b0010001001000000
.DW 0b0010010001000000
.DW 0b0010011001000000
.DW 0b0000000000000000
.DW 0b0000001000000000
.DW 0b0000001000000000
.DW 0b0000001100000000
.DW 0b0010000000000000
.DW 0b0010001000000000
.DW 0b0010010000000000
.DW 0b0010011000000000
.DW 0b0000000000100000
.DW 0b0000001000100000
.DW 0b0000001100100000
.DW 0b0010000001000000
.DW 0b0010001001000000
.DW 0b0010010001000000
.DW 0b0010011001000000
.DW 0b0000000000000001
.DW 0b0000001000000001
.DW 0b0000001100000001
.DW 0b0010000000000001
.DW 0b0010001000000001
.DW 0b0010010001000000
.DW 0b0010011001000000
.DW 0b0000000000000001
.DW 0b0000001000100001
.DW 0b0000001100100001
.DW 0b0010000001000001
.DW 0b0010001001000001
.DW 0b0010010001000001
.DW 0b0010011001000001
.DW 0b0000000000000001
.DW 0b0000001000000001
.DW 0b0000001100000001
.DW 0b0010000000000001
.DW 0b0010001000000001
.DW 0b0010010000000001
.DW 0b0010011000000001
```



.DW 0b0000001101000001  
.DW 0b0000010101000001  
.DW 0b0000011101000001  
.DW 0b0010000101000001  
.DW 0b0010001101000001  
.DW 0b0010010101000001  
.DW 0b0010011101000001  
.DW 0b0000100000000000  
.DW 0b0000101000000000  
.DW 0b0000110000000000  
.DW 0b0000111000000000  
.DW 0b0010100000000000  
.DW 0b0010101000000000  
.DW 0b0010110000000000  
.DW 0b0010111000000000  
.DW 0b0000100001000000  
.DW 0b0000101001000000  
.DW 0b0000110001000000  
.DW 0b0000111001000000  
.DW 0b0010100001000000  
.DW 0b0010101001000000  
.DW 0b0010110001000000  
.DW 0b0010111001000000  
.DW 0b0000100000000000  
.DW 0b0000101000000000  
.DW 0b0000110000000000  
.DW 0b0000111000000000  
.DW 0b0010100000000000  
.DW 0b0010101000000000  
.DW 0b0010110000000000  
.DW 0b0010111000000000  
.DW 0b0000100001000000  
.DW 0b0000101001000000  
.DW 0b0000110001000000  
.DW 0b0000111001000000  
.DW 0b0010100001000000  
.DW 0b0010101001000000  
.DW 0b0010110001000000  
.DW 0b0010111001000000  
.DW 0b0000100000000001  
.DW 0b0000101000000001  
.DW 0b0000110000000001  
.DW 0b0000111000000001  
.DW 0b0010100000000001  
.DW 0b0010101000000001  
.DW 0b0010110000000001  
.DW 0b0010111000000001  
.DW 0b0000100001000001  
.DW 0b0000101001000001  
.DW 0b0000110001000001  
.DW 0b0000111001000001  
.DW 0b0010100001000001  
.DW 0b0010101001000001  
.DW 0b0010110001000001  
.DW 0b0010111001000001  
.DW 0b0000100001000001  
.DW 0b0000101001000001  
.DW 0b0000110001000001  
.DW 0b0000111001000001  
.DW 0b0010100001000001  
.DW 0b0010101001000001  
.DW 0b0010110001000001  
.DW 0b0010111001000001  
.DW 0b0000100001000001  
.DW 0b0000101001000001

.DW 0b0000110001000001  
.DW 0b0000111001000001  
.DW 0b0010100001000001  
.DW 0b0010101001000001  
.DW 0b0010110001000001  
.DW 0b0010111001000001  
.DW 0b0000100100000000  
.DW 0b0000101100000000  
.DW 0b0000110100000000  
.DW 0b0000111100000000  
.DW 0b0010100100000000  
.DW 0b0010101100000000  
.DW 0b0010110100000000  
.DW 0b0010111100000000  
.DW 0b0000100101000000  
.DW 0b0000101101000000  
.DW 0b0000110101000000  
.DW 0b0000111101000000  
.DW 0b0010100101000000  
.DW 0b0010101101000000  
.DW 0b0010110101000000  
.DW 0b0010111010000000  
.DW 0b0000100100000000  
.DW 0b0000101100000000  
.DW 0b0000110100000000  
.DW 0b0000111100000000  
.DW 0b0010100100000000  
.DW 0b0010101100000000  
.DW 0b0010110100000000  
.DW 0b0010111100000000  
.DW 0b0000100101000000  
.DW 0b0000101101000000  
.DW 0b0000110101000000  
.DW 0b0000111010100000  
.DW 0b0010100101000000  
.DW 0b0010101101000000  
.DW 0b0010110101000000  
.DW 0b0010111101000000  
.DW 0b0000100100000001  
.DW 0b0000101100000001  
.DW 0b0000110100000001  
.DW 0b0000111100000001  
.DW 0b0000100101000001  
.DW 0b0000101101000001  
.DW 0b0000110101000001  
.DW 0b0000111101000001  
.DW 0b0010100101000001  
.DW 0b0010111101000001  
.DW 0b0000100100000001  
.DW 0b0000101100000001  
.DW 0b0000110100000001  
.DW 0b0000111100000001  
.DW 0b0010100100000001  
.DW 0b0010110100000001  
.DW 0b0010111101000001  
.DW 0b0000100101000001  
.DW 0b0000110101000001

```
.DW    0b0000111101000001
.DW    0b0010100101000001
.DW    0b0010101101000001
.DW    0b0010110101000001
.DW    0b0010111101000001

; ManualResetLowShift
;
; Description: This is the table of shifts of the low byte of the LEDs
; for manually resetting the Hexer game. Each entry is
; the active high bit pattern for the shifted pattern.
; The table is indexed by the low byte of the current
; pattern. The value from this table should be OR'ed with
; the value from the ManualResetHighShift table to get the
; complete shifted state. The output bits and low byte
; used to index this table have the bits in the order
; expected by the DisplayGameLEDs function.
;
; Notes: READ ONLY tables should always be in the code segment so
; that in a standalone system it will be located in the
; ROM with the code.
;
; Author: auto-generated
; Last Modified: June 14, 2023
```

## ManualResetHighShift:

.DW 0b00000000000000000000  
.DW 0b00000000000000000010  
.DW 0b000000000001000000  
.DW 0b000000000001000010  
.DW 0b0000000001000000  
.DW 0b00000000010000010  
.DW 0b0000000001010000  
.DW 0b00000000010100010  
.DW 0b00000000000010000  
.DW 0b00000000000010010  
.DW 0b000000000000110000  
.DW 0b000000000000110010  
.DW 0b00000000010010000  
.DW 0b00000000010010010  
.DW 0b00000000010110000  
.DW 0b00000000010110010  
.DW 0b000000000000000000  
.DW 0b000000000000000010  
.DW 0b000000000000100000  
.DW 0b000000000000100010  
.DW 0b000000000000101000  
.DW 0b0000000000001010010  
.DW 0b0000000000001010000  
.DW 0b00000000000010100010  
.DW 0b00000000000010100000  
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