

Assignment – Little Endian

Word B: **89ABCDEF****(B & 0xFF) << 24**

```

(B & 0xFF) = 1110 1111
           & 1111 1111
           = 1110 1111
           = 0000 0000 0000 0000 0000 0000 1110 1111
<< 24 = 1110 1111 0000 0000 0000 0000 0000 0000

```

(B & 0xFF00) << 8

```

(B & 0xFF00) = 1100 1101 1110 1111
             & 1111 1111 0000 0000
             = 1100 1101 0000 0000
             = 1100 1101 0000 0000
             = 0000 0000 0000 0000 1100 1101 0000 0000

<< 8 = 0000 0000 1100 1101 0000 0000 0000 0000

```

(B >> 8) & 0xFF00

```

(B >> 8) = 1110 1111 1000 1001 1010 1011 1100 1101
& 0xFF00 = 1010 1011 1100 1101
          & 1111 1111 0000 0000
          = 1010 1011 0000 0000
          = 0000 0000 0000 0000 1010 1011 0000 0000

```

(B >> 24) & 0xFF

```

(B >> 24) = 1010 1011 1100 1101 1110 1111 1000 1001
& 0xFF = 1000 1001
        1111 1111
        = 1000 1001
        = 0000 0000 0000 0000 0000 0000 1000 1001

```

B = EF000000 | 00CD0000 | 0000AB00 | 00000089

LOWER ORDER B = EFCDAB89