

```

/*****
*
*           Tables of Truth
*
*           | = or ^ = xor & = and n = nand
*
*
*   | 0 1 2 3 4 5 6 7 8 9 a b c d e f   ^ 0 1 2 3 4 5 6 7 8 9 a b c d e f
*   0 0 1 2 3 4 5 6 7 8 9 a b c d e f   0 0 1 2 3 4 5 6 7 8 9 a b c d e f
*   1 1 1 3 3 5 5 7 7 9 9 b b d d f f   1 1 0 3 2 5 4 7 6 9 8 b a d c f e
*   2 2 3 2 3 6 7 6 7 a b a b e f e f   2 2 3 0 1 6 7 4 5 a b 8 9 e f c d
*   3 3 3 3 3 7 7 7 7 b b b b f f f f   3 3 2 1 0 7 6 5 4 b a 9 8 f e d c
*   4 4 5 6 7 4 5 6 7 c d e f c d e f   4 4 5 6 7 0 1 2 3 c d e f 8 9 a b
*   5 5 5 7 7 5 5 7 7 d d f f d d f f   5 5 4 7 6 1 0 3 2 d c f e 9 8 b a
*   6 6 7 6 7 6 7 6 7 e f e f e f e f   6 6 7 4 5 2 3 0 1 e f c d a b 8 9
*   7 7 7 7 7 7 7 7 7 f f f f f f f f   7 7 6 5 4 3 2 1 0 f e d c b a 9 8
*   8 8 9 a b c d e f 8 9 a b c d e f   8 8 9 a b c d e f 0 1 2 3 4 5 6 7
*   9 9 9 b b d d f f 9 9 b b d d f f   9 9 8 b a d c f e 1 0 3 2 5 4 7 6
*   a a b a b e f e f a b a b e f e f   a a b 8 9 e f c d 2 3 0 1 6 7 4 5
*   b b b b b f f f f b b b b f f f f   b b a 9 8 f e d c 3 2 1 0 7 6 5 4
*   c c d e f c d e f c d e f c d e f   c c d e f 8 9 a b 4 5 6 7 0 1 2 3
*   d d d f f d d f f d d f f d d f f   d d c f e 9 8 b a 5 4 7 6 1 0 3 2
*   e e f e f e f e f e f e f e f e f   e e f c d a b 8 9 6 7 4 5 2 3 0 1
*   f f f f f f f f f f f f f f f f   f f e d c b a 9 8 7 6 5 4 3 2 1 0
*
*
*   & 0 1 2 3 4 5 6 7 8 9 a b c d e f   n 0 1 2 3 4 5 6 7 8 9 a b c d e f
*   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   0 f f f f f f f f f f f f f f f
*   1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1   1 f e f e f e f e f e f e f e f e
*   2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2   2 f f d d f f d d f f d d f f d d
*   3 0 1 2 3 0 1 2 3 0 1 2 3 0 1 2 3   3 f e d c f e d c f e d c f e d c
*   4 0 0 0 0 4 4 4 4 0 0 0 0 4 4 4 4   4 f f f f b b b b f f f f b b b b
*   5 0 1 0 1 4 5 4 5 0 1 0 1 4 5 4 5   5 f e f e b a b a f e f e b a b a
*   6 0 0 2 2 4 4 6 6 0 0 2 2 4 4 6 6   6 f f d d b b 9 9 f f d d b b 9 9
*   7 0 1 2 3 4 5 6 7 0 1 2 3 4 5 6 7   7 f e d c b a 9 8 f e d c b a 9 8
*   8 0 0 0 0 0 0 0 0 8 8 8 8 8 8 8 8   8 f f f f f f f f 7 7 7 7 7 7 7 7
*   9 0 1 0 1 0 1 0 1 8 9 8 9 8 9 8 9   9 f e f e f e f e 7 6 7 6 7 6 7 6
*   a 0 0 2 2 0 0 2 2 8 8 a a 8 8 a a   a f f d d f f d d 7 7 5 5 7 7 5 5
*   b 0 1 2 3 0 1 2 3 8 9 a b 8 9 a b   b f e d c f e d c 7 6 5 4 7 6 5 4
*   c 0 0 0 0 4 4 4 4 8 8 8 8 c c c c   c f f f f b b b b 7 7 7 7 3 3 3 3
*   d 0 1 0 1 4 5 4 5 8 9 8 9 c d c d   d f e f e b a b a 7 6 7 6 3 2 3 2
*   e 0 0 2 2 4 4 6 6 8 8 a a c c e e   e f f d d b b 9 9 7 7 5 5 3 3 1 1
*   f 0 1 2 3 4 5 6 7 8 9 a b c d e f   f f e d c b a 9 8 7 6 5 4 3 2 1 0
*
*****/

```