

A	B	C	D	Hex	a	b	c	d	e	f	g
0	0	0	0	0	1	1	1	1	1	1	0
0	0	0	1	1	0	1	1	0	0	0	0
0	0	1	0	2	1	1	0	1	1	0	1
0	0	1	1	3	1	1	1	1	0	0	1
0	1	0	0	4	0	1	1	0	0	1	1
0	1	0	1	5	1	0	1	1	0	1	1
0	1	1	0	6	1	0	1	1	1	1	1
0	1	1	1	7	1	1	1	0	0	0	0
1	0	0	0	8	1	1	1	1	1	1	1
1	0	0	1	9	1	1	1	1	0	1	1
1	0	1	0	A	1	1	1	0	1	1	1
1	0	1	1	b	0	0	1	1	1	1	1
1	1	0	0	C	1	0	0	1	1	1	0
1	1	0	1	d	0	1	1	1	1	0	1
1	1	1	0	E	1	0	0	1	1	1	1
1	1	1	1	F	1	0	0	0	1	1	1

Equação Booleana para cada segmento												
Segmento A												
Ligado para: 0, 2, 3, 5, 6, 7, 8, 9, A, C, E, F												
$a=(A!B!C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)$												
$a=(a!b)+(a!c)+(a!b!c)+(a!b!c)+(a!b!c)+(a!b!c)+(a!b!c)+(a!b!c)+(a!b!c)+(a!b!c)+(a!b!c)+(a!b!c)+(a!b!c)$												
Segmento B												
Ligado para: 0, 1, 2, 3, 4, 7, 8, 9, A, D												
$b=(A!B!C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)$												
$b=(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)$												
Segmento C												
Ligado para: 0, 1, 3, 4, 5, 6, 7, 8, 9, A, B, D												
$c=(A!B!C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)$												
$c=(a!c!d)+(a!c!d)+(a!c!d)+(a!c!d)+(a!c!d)+(a!c!d)+(a!c!d)+(a!c!d)+(a!c!d)+(a!c!d)+(a!c!d)+(a!c!d)+(a!c!d)$												
Segmento D												
Ligado para: 0, 2, 3, 5, 6, 8, 9, B, C, E												
$d=(A!B!C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)$												
$d=(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)$												
Segmento E												
Ligado para: 0, 2, 6, 8, A, B, C, D, E, F												
$e=(A!B!C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)$												
$e=(a!b)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)+(b!a!d)$												
Segmento F												
Ligado para: 0, 4, 5, 6, 8, 9, A, B, E, F												
$f=(A!B!C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)+(A!B.C!D)$												
$f=(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)+(a!b!d)$												
Segmento G												
Ligado para: 2, 3, 4, 5, 6, 8, 9, A, B, D, E, F												
$g=(a!c)+(a!c)+(a!c)+(a!c)+(a!c)+(a!c)+(a!c)+(a!c)+(a!c)+(a!c)+(a!c)+(a!c)+(a!c)$												

Entradas do Display

A	B	C	D	E	F	G
1	1	1	0	1	1	1
0	0	1	1	1	1	1
1	0	0	1	1	1	0
0	1	1	1	1	0	1
1	0	0	1	1	1	1
1	0	0	0	1	1	1
1	1	1	1	0	1	1
0	1	1	0	1	1	1
0	0	0	0	1	1	0
0	1	1	1	1	0	0

Letra Representada

