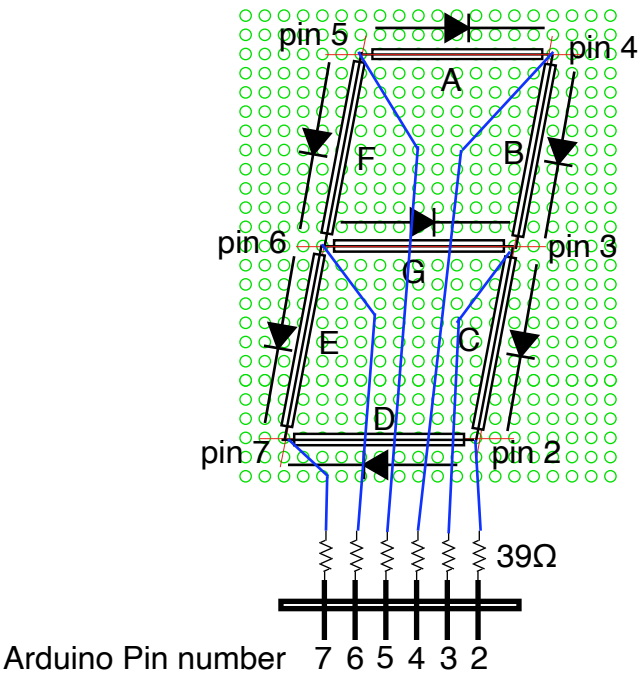

Binary to 7 segment decoder

VALUE	SEGMENT A	B	C	D	E	F	G
0	1	1	1	1	1	1	1
1	0	1	1	0	0	0	0
2	1	1	0	1	1	0	1
3	1	1	1	1	0	0	1
4	0	1	1	0	0	1	1
5	1	0	1	1	0	1	1
6	1	0	1	1	1	1	1
7	1	1	1	0	0	0	0
8	1	1	1	1	1	1	1
9	1	1	1	0	0	1	1
A	1	1	1	0	1	1	1
B	0	0	1	1	1	1	1
C	1	0	0	1	1	1	0
0	0	1	1	1	1	0	1
E	1	0	0	1	1	1	1
F	1	1	0	0	1	1	1

SEGMENT	PORT BIT NUMBER 7	6	5	4	3	2	1	0	Value	Dir
A	i	i	1	0	i	i	x	x	0x20	0x30
B	i	i	i	1	0	i	x	x	0x10	0x18
C	i	i	i	i	1	0	x	x	0x08	0x0C
D	0	i	i	i	i	1	x	x	0x04	0x84
E	0	1	i	i	i	i	x	x	0x40	0xC0
F	i	0	1	i	i	i	x	x	0x20	0x60
G	i	1	i	i	0	i	x	x	0x40	0x48

i = bit is an INPUT
0 = bit is an OUTPUT of '0'
1 = bit is an OUTPUT of '1'
x = don't care.