February 1, 1984
POLY.LST

A NIBBLE BINARY TO POLYCODE CONVERTER

Let:

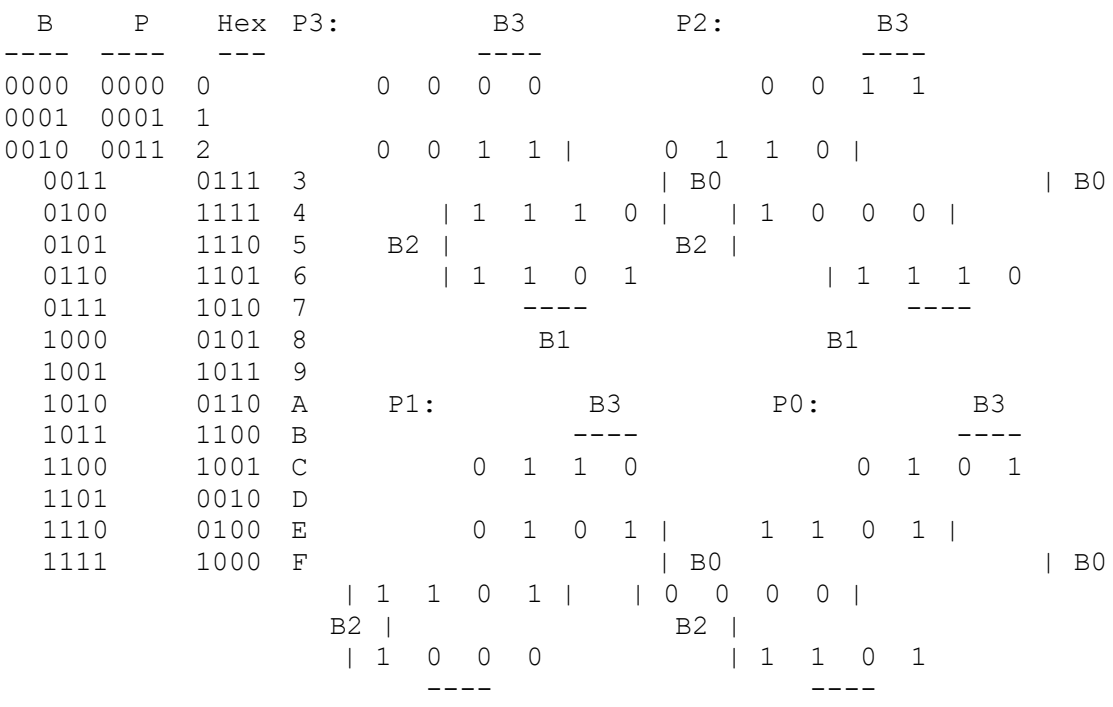
'Bn' be the 'n'th bit of the binary number 'B' and
'Pn' be the 'n'th bit of the polycode number 'P'.

Objective: Convert B to P

TRUTH TABLES

B	P	Hex
0000	0000	0
0001	0001	1
0010	0011	2
0011	0111	3
0100	1111	4
0101	1110	5
0110	1101	6
0111	1010	7
1000	0101	8
1001	1011	9
1010	0110	A
1011	1100	B
1100	1001	C
1101	0010	D
1110	0100	E
1111	1000	F

MAPS



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```
                          B1              B1

  /P3 = /B3*/B2+/B2*/B0+B3*B1*/B0+B3*B2*/B1*B0
  /P2 = /B3*/B2*/B0+/B2*/B1*B0+B2*B1*B0+B3*B2*/B1
/P1 = /B3*/B2*/B1+B3*/B1*/B0+B3*B1*B0+B2*B1*/B0
/P0 = /B3*/B2*/B1*/B0+B3*B1+B2*B0
```

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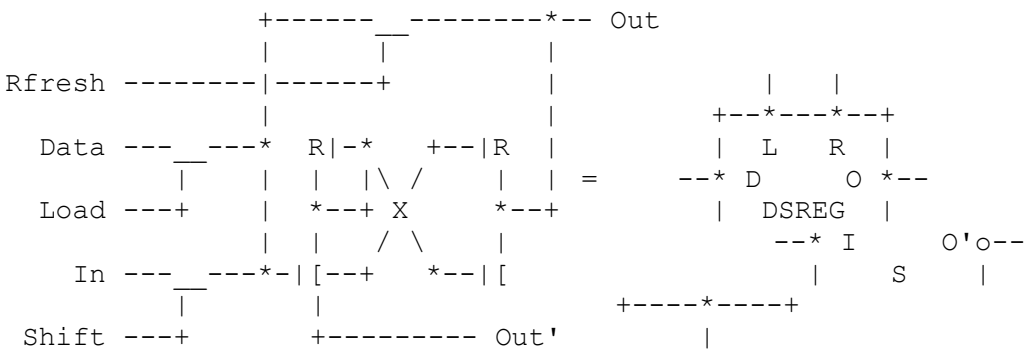
DYNAMIC 4-BIT PRESETTABLE POLYCODE COUNTER WITH TERMINAL COUNT TO ZERO



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