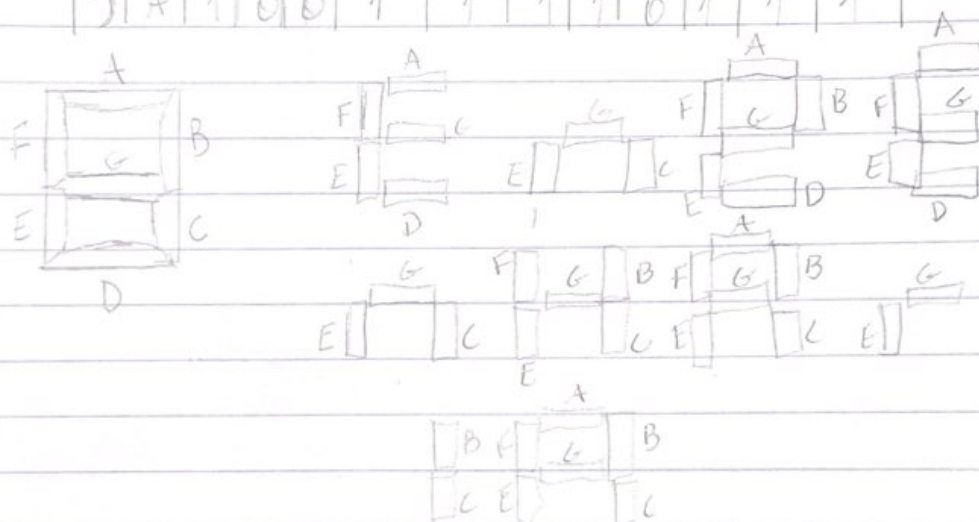


3)

*	#	A	B	C	D	a	b	c	d	e	f	g
0	E	0	0	0	0	1	0	0	1	1	1	1
1	N	0	0	0	1	0	0	1	0	1	0	1
2	G	0	0	1	0	1	1	0	1	1	1	1
3	E	0	0	1	1	1	0	0	1	1	1	1
4	N	0	1	0	0	0	0	1	0	1	0	1
5	H	0	1	0	1	0	1	1	0	1	1	1
6	A	0	1	1	0	1	1	1	0	1	1	1
7	R	0	1	1	1	0	0	0	0	1	0	1
8	I	1	0	0	0	0	1	1	0	0	0	0
9	A	1	0	0	1	1	1	1	0	1	1	1



a:

	\bar{C}	C	
\bar{A}	1	1	\bar{B}
A	0	1	B
	\bar{D}	D	\bar{D}

$$a = \bar{A}\bar{B}\bar{D} + \bar{B}\bar{D} + C\bar{D} + AD$$

b:

	\bar{C}	C	
\bar{A}	0	0	\bar{B}
A	0	1	B
	\bar{D}	D	\bar{D}

$$b = C\bar{D} + B\bar{C}\bar{D} + A$$

c:

	\bar{C}	C	
\bar{A}	0	0	\bar{B}
A	1	1	B
	\bar{D}	D	\bar{D}

$$c = \bar{C}D + B\bar{D} + A\bar{B}$$