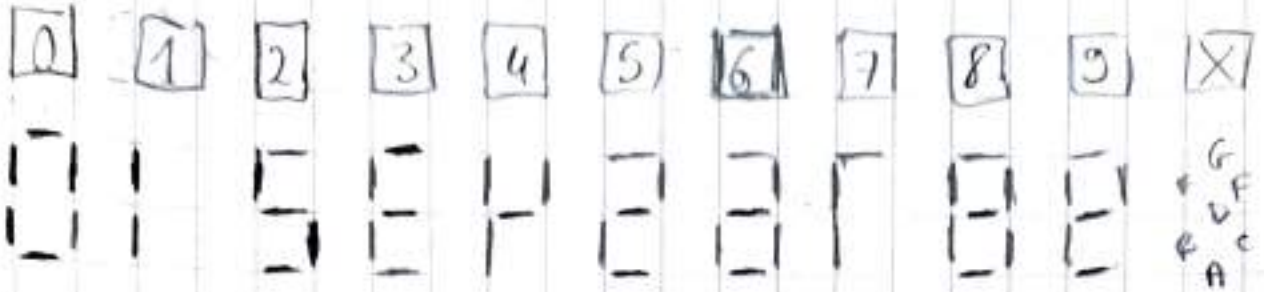

a) : 2^7

b) : 2^4

c) : 2^2

d) : 2^2

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

ab \ cd	00	01	11	10
00	0	8	X	4
01	2	X	X	6
11	3	X	X	7
10	1	9	X	5

(A) : $d + \bar{a}b + \bar{a}\bar{c} + b\bar{c} + a\bar{b}c = d + b(\bar{a}+\bar{c}) + \bar{a}\bar{c} + \bar{b}(ac)$

(B) : $\bar{b}+c+a$ $= d + b(\bar{a}+\bar{c}) + \bar{b}\overline{(\bar{a}+\bar{c})} + \bar{a}c = d + \bar{a}\bar{c} + \overline{b \otimes K}$, $K = \bar{a}+\bar{c}$

(C) : $\bar{a}b + \bar{a}\bar{c} = \bar{a}(b+\bar{c})$ // (A) : $d + \bar{a}(b+\bar{c}) + b\bar{c} + a\bar{b}c$

(D) : $d + \bar{a}b + \bar{b}c + b\bar{c} = d + b(\bar{a}+\bar{c}) + \bar{b}c$

(E) : $\bar{c} + \bar{a}\bar{b} + ab = \bar{c} + \overline{a \otimes b}$

(F) : $d + ac + \bar{a}b + \bar{b}c = d + b(\bar{a}+c) + \bar{a}c$

(G) : $d \cdot b \cdot ac \cdot ac = d(b \cdot a \otimes c)$