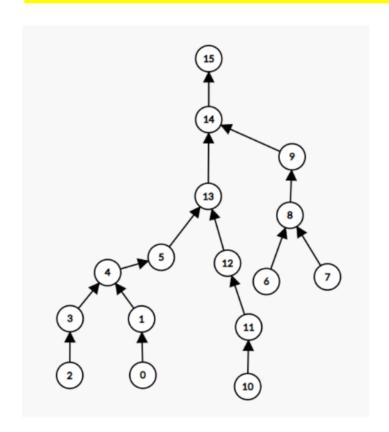
Lógica de Estados & FF.D:



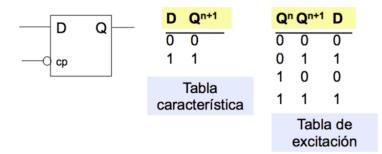
Qn	Qn+1
٩o	31
31	94
92	1 3
q_3	94
94	J2
٩s	9/13
76	Ĵβ
97	₹8
30	49
99	9,14
915	qн
911	412
912	913
913	914
914	915
gis	915

	Qn	Qn+1
	ABC D	ABCD
q.	၁၁၁၁	0001
91	0001	0400
92	0040	0011
93	0011	0400
44	0400	0101
95	0101	1101
36	<u>0110</u>	1000
qa	0111	1000
48	1000	1001
99	1001	1110
910	1010	1011
411	1011	1100
912	1100	1101
413	1101	0111
914	C111	1111
915	1111	1111

ا۔	ieic	ultades	•
d	11410	MILATORS	•

	<u> </u>	ו
	ABC D 0 0 0 0	
q.	၁၁၁၁	2
91	0001	4
92	0040	1
q_3	0011	5 5 7
44	0400	5
95	0101	7
96	0110	4
q,	0111	4
48	1000	6
49	1001	3 8 7
910	1010	8
411	1011	7
912	1100	9
413	1101	7
914	C111	7 8 q
915	1111	q

Flip Flop (D)



$\mathcal{D}_{\mathbf{A}}$:	AB\CD	00	01	11	10
о д	00	0	0	0	0
	01	0	1	1	1
	11	1	1	4	\nearrow
	10	1	1	1	1

$$D_A = A + BD + BC$$

D_C: AB\CD 00 01 11 10
00 0 0 0 1
01 0 0 0 0
11 0 1 1 1

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

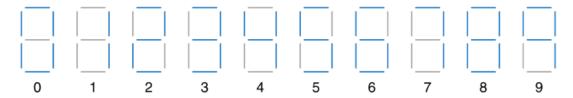
D_{B} :	AB\CD	00	01	11	10
	00	d	1	4	0
	01	4	1	0	O
	11	1	4	1	A
	10	0	1	1	O

$$D_B = \overline{B}D + B\overline{C} + AB$$

\mathcal{D}_{n} :	AB\CD	00	01	11	10
V	9	1	0	0	4
	01	1	1	0	0
	11	1	0	1	1
	10	4)	0	0	(1

$$D_D = \bar{b}\bar{D} + \bar{c}\bar{D} + \bar{A}\bar{b}\bar{c} + A\bar{b}c$$

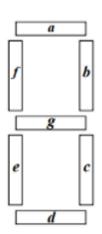
Lógica de Salida:



Q = estados

Dif = dificultad on base 10

a,b,... g = 7 bits dificultad en binario



Q	Dit	a	Ь	c	٩	e	t	9
ABCD								
၁၁၁၁	2	1	1	0	1	1	٥	1
0001	4	100	1	1	0	0	1	1
0040	1	0	1	1	0	0	0	0
0011	5	1	0	1	1	000	1	1
0400	5	1	0	1	1	0	1	1
0101	7	1	1	1	0	O	٥	0
0110	4	0	1	1	0	000000000	1 1 1	1
0111	4	0	1	1	0 0 1 1	0	1	1
4000	6	1	0	1	1	1	1	1
1001	3	1	1	1	1	0	0	1
1010	8	1	1	1	1	1	4	1
1011	7	1	1	1	0	o	o 1	0
1100	9	1	1		O		1	1
1101	2415574463879789	1100111111	1	1	0	o	٥	110110111110101
,	8	1	1	1	1	1	1	1
1111	9	1	1	1	o	٥	1	1

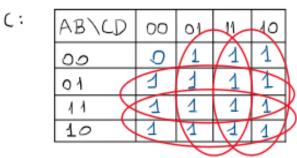
ο.					
0:	AB\CD	99	01	11	10
	00	71	0	(1)	0
	01	71	3	S	0
	11	A	Y	1	1
	10	¥	1	1	1

$$Q = A + \overline{CD} + B\overline{C} + \overline{B}CD$$

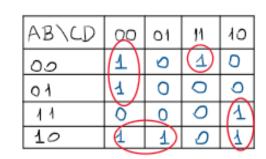
10

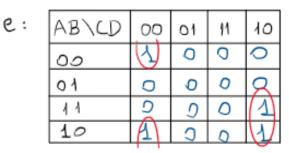
b:	AB\CD	00	24	11	19
	00	1		0	1
	01	٥	4	1	1
	11	1	1	$\sqrt{1}$	M

$$b = \overline{AB}\overline{C} + BC + AB + \overline{CD} + C\overline{D} + AC$$



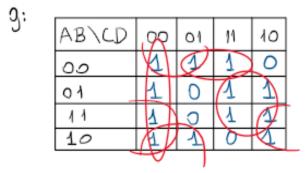
9:





f :	AB\CD	00	01	11	10
	00	0	Κ)	$\langle \cdot \rangle$	0
	01	1	0	7	
	4.4	1)	0	1	Æ.
	10 -	1	Q	Q	J

$$F = B\overline{D} + A\overline{D} + \overline{A}\overline{B}D + BC$$



$$g = \overline{BC} + \overline{AB}D + BC + \overline{CD} + A\overline{D}$$