$C = (A \pm 1)_{mod15}$ Число входных/выходных переменных: 5/5

Разрядность операндов: 4/-

У	a_1	a ₂	a ₃	a ₄	V	c ₁	C ₂	C ₃	C4
0	0	0	0	0	0	0	0	0	1
0	0	0	0	1	0	0	0	1	0
0	0	0	1	0	0	0	0	1	1
0	0	0	1	1	0	0	1	0	0
0	0	1	0	0	0	0	1	0	1
0	0	1	0	1	0	0	1	1	0
0	0	1	1	0	0	0	1	1	1
0	0	1	1	1	0	1	0	0	0
0	1	0	0	0	0	1	0	0	1
0	1	0	0	1	0	1	0	1	0
0	1	0	1	0	0	1	0	1	1
0	1	0	1	1	0	1	1	0	0
0	1	1	0	0	0	1	1	0	1
0	1	1	0	1	0	1	1	1	0
0	1	1	1	0	1	0	0	0	0
0	1	1	1	1	d	d	d	d	d
1	0	0	0	0	1	1	1	1	0
1	0	0	0	1	0	0	0	0	0
1	0	0	1	0	0	0	0	0	1
1	0	0	1	1	0	0	0	1	0
1	0	1	0	0	0	0	0	1	1
1	0	1	0	1	0	0	1	0	0
1	0	1	1	0	0	0	1	0	1
1	0	1	1	1	0	0	1	1	0
1	1	0	0	0	0	0	1	1	1
1	1	0	0	1	0	1	0	0	0
1	1	0	1	0	0	1	0	0	1
1	1	0	1	1	0	1	0	1	0
1	1	1	0	0	0	1	0	1	1
1	1	1	0	1	0	1	1	0	0
1	1	1	1	0	0	1	1	0	1
1	1	1	1	1	d	d	d	d	d

<u>V</u>

y=0	a ₁ a ₂					
		00	01	11	10	
	00					
a ₃ a ₄	01					
	11			d		
	10			1		

y=1		a ₁ a ₂					
		00	01	11	10		
	00	1					
a ₃ a ₄	01						
	11			d			
	10						

<u>C</u>1

y=0		a ₁ a ₂					
		00	01	11		10	
	00			1	\bigcap	1	
a ₃ a ₄	01			1		1	
	11		1	d		1	
	10					1	

y=1		a ₁ a ₂					
		00	01	11	10		
	00	1		1			
a ₃ a ₄	01			4	1		
	11			d	1		
	10			1_	1		

<u>C</u>2

y=0	a_1a_2					
		00	01	11	10	
	00		1	1		
a ₃ a ₄	01		1	1		
	11	1		d	1	
	10		1			

y=1	a ₁ a ₂					
		00	01	11	10	
	00	1			1	
a ₃ a ₄	01		1	1		
	11		1	d		
	10		1	1		

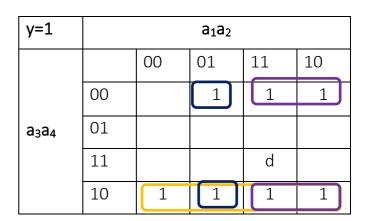
<u>C</u>3

y=0	a ₁ a ₂					
		00	01	11	10	
	00					
a ₃ a ₄	01	1	1	1	1	
	11			d		
	10	1	1		1	

y=1	a ₁ a ₂					
		00	01	11	10	
	00	1	1	1	1	
a ₃ a ₄	01					
	11	1	1	d	1	
	10					

<u>C</u>4

y=0	a ₁ a ₂					
		00	01	11	10	
	00	1	1	1	1	
a ₃ a ₄	01					
	11			d		
	10	1	1		1	



```
\begin{cases} v = \overline{y}a1a2a3 \lor y\overline{a1a2a3a4}(Sq = 11) \\ c1 = \overline{y}a1\overline{a2} \lor a1a2\overline{a3} \lor \overline{y}a2a3a4 \lor y\overline{a1a2a3a4} \lor ya1a3 \lor ya1a4 (Sq = 33) \\ c2 = \overline{y}a2\overline{a3} \lor \overline{y}a2a3a4 \lor \overline{y}a1a2\overline{a4} \lor y\overline{a2a3a4} \lor ya2a4 \lor ya2a3(Sq = 27) \\ c3 = \overline{y}a3a4 \lor \overline{y}a2a3\overline{a4} \lor \overline{y}a1a3\overline{a4} \lor y\overline{a3a4} \lor ya3a4(Sq = 22) \\ c4 = \overline{y}a3a4 \lor \overline{y}a2a4 \lor ya3a4 \lor ya1a4 \lor \overline{a1}a2\overline{a4}(Sq = 20) \end{cases}
```

 $S_q = 113$

$$\begin{cases} v = \overline{y}a1a2a3 \lor \varphi_{2}\overline{a1}(Sq = 8) \\ c1 = \overline{y}a1\overline{a2} \lor a1a2\overline{a3} \lor \overline{y}a2a3a4 \lor \varphi_{2}\overline{a1} \lor a1\varphi_{1}(Sq = 19) \\ c2 = \overline{y}a2\overline{a3} \lor \overline{y}a2a3a4 \lor \overline{y}a1a2\overline{a4} \lor \varphi_{2} \lor a2\varphi_{1}(Sq = 18) \\ c3 = \overline{y}a3a4 \lor \overline{y}a3\overline{a4}(\overline{a2} \lor \overline{a1}) \lor \overline{y}a3\overline{a4} \lor ya3a4(Sq = 19) \\ c4 = \overline{y}a4(\overline{a3} \lor \overline{a2}) \lor \overline{y}a4(a3 \lor a1) \lor \overline{a1}a2\overline{a4}(Sq = 16) \\ \varphi_{1} = y(a3 \lor a4)(Sq = 4) \\ \varphi_{2} = y\overline{a2a3a4}(Sq = 4) \end{cases}$$

 $S_{q} = 88$

$$T_{v}{=}3\tau,\,T_{c1}{=}4\tau,\,T_{c2}{=}4\tau,\,T_{c3}{=}3\tau,\,T_{c4}{=}3\tau\,,\,T=max\,(T_{v,}\,T_{c1},\,T_{c2},\,T_{c3},\,T_{c4}){=}\,4\tau.$$

F(00000) = 00001

$$F(10000) = 11110$$

