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

Разрядность операндов: 4/-

У	$a_1$	a <sub>2</sub>	<b>a</b> <sub>3</sub>	a <sub>4</sub>	V	<b>c</b> <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	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 <sub>1</sub> a <sub>2</sub>					
		00	01	11	10	
	00					
a <sub>3</sub> a <sub>4</sub>	01					
	11			d		
	10			1		

y=1		a <sub>1</sub> a <sub>2</sub>						
		00	01	11	10			
	00	1						
a <sub>3</sub> a <sub>4</sub>	01							
	11			d				
	10							

<u>C</u>1

y=0		a <sub>1</sub> a <sub>2</sub>					
a <sub>3</sub> a <sub>4</sub>		00	01	11	10		
	00			1	1		
	01				1		
	11		1	4	1		
	10				1		

y=1		a <sub>1</sub> a <sub>2</sub>					
		00	01	11	10		
	00	1		1			
a <sub>3</sub> a <sub>4</sub>	01			4	1		
	11			d	1		
	10			1_	1		

<u>C</u>2

y=0	a <sub>1</sub> a <sub>2</sub>					
		00	01	11	10	
	00		1	1		
a <sub>3</sub> a <sub>4</sub>	01		1	1		
	11	1		d	1	
	10		1			

y=1	a <sub>1</sub> a <sub>2</sub>					
		00	01	11	10	
	00	1			1	
a <sub>3</sub> a <sub>4</sub>	01		1	1		
	11		1	d		
	10		1	1		

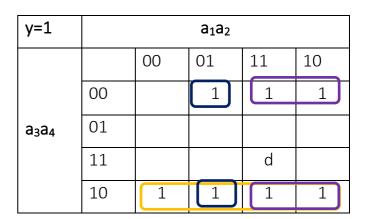
## <u>C</u>3

y=0	a <sub>1</sub> a <sub>2</sub>					
		00	01	11	10	
	00					
a <sub>3</sub> a <sub>4</sub>	01	1	1	1	1	
	11			d		
	10	1	1		1	

y=1	a <sub>1</sub> a <sub>2</sub>					
		00	01	11	10	
	00	1	1	1	1	
a <sub>3</sub> a <sub>4</sub>	01					
	11	1	1	d	1	
	10					

## <u>C</u>4

y=0	a <sub>1</sub> a <sub>2</sub>					
		00	01	11	10	
	00	1	1	1	1	
a <sub>3</sub> a <sub>4</sub>	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 a1a4 (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 ya3\overline{a4} \lor ya1\overline{a4} \lor \overline{a1}a2\overline{a4}(Sq = 20) \end{cases}
```

$$S_q = 113$$

$$S_{q} = 92$$

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

F(00000) = 00001

F(10000) = 11110

