Rubik's Clock Wertetabelle:

c_0	C ₁	C ₂	C ₃	C ₄	C ₅	C 6	C ₇	C ₈	C 9	C ₁₀	C ₁₁	C ₁₂	C ₁₃	C ₁₄	C ₁₅	C ₁₆	C ₁₇	b_0	b ₁	b_2	b ₃	t ₀	t ₁
1	0	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
1	0	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1
1	0	1	0	0	0	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	0
1	0	1	0	0	0	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	0	0
1	0	1	0	0	0	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	0	1
1	0	1	0	0	0	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	1	1	0
0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	1	1
1	0	1	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	0	0	1	0	0	0 1
0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0
1	0	1	0	0	0	0	0	1	1	1	1	1	1	1	0	1	1	0	0	1	0	1	1
1	0	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	0	0
1	0	1	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	1	1	0	1
0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	1	0	1	0	0	1	1	1	0
1	0	0	0	0	0	1	0	1	1	1	0	1	1	1	1	1	1	0	1	0	0	0	0
0	1	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1
1	0	0	0	0	0	1	0	1	1	1	0	1	1	1	1	1	1	0	1	0	0	1	0
1	0	0	0	0	0	1	0	1	1	1	0	1	1	1	1	1	1	0	1	0	0	1	1
0	0 1	1	0	1	1	0	0 1	<u>0</u>	0	0	1	0	0	0	0	0	0 1	0	1	0	1	0	0 1
1	0	0	0	0	0	1	0	0	1	1	0	1	1	0	1	1	0	0	1	0	1	1	0
0	1	1	0	1	1	0	1	1	0	0	1	0	0	0	0	0	1	0	1	0	1	1	1
1	0	0	0	0	0	0	0	1	1	1	0	1	1	1	0	1	1	0	1	1	0	0	0
0	1	1	1	1	1	1	1	0	0	0	1	0	0	0	1	0	0	0	1	1	0	0	1
<u>0</u> 1	0	0	0	0	0	0	0	0	0 1	0 1	0	0	1	1	0	0 1	0	0	1	1	0	1	0
1	0	0	0	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	1	1	1	0	0
0	1	1	1	1	1	1	1	1	0	0	1	0	0	0	1	0	1	0	1	1	1	0	1
0	1	1	1	1	1	1	1	1	0	0	1	0	0	0	1	0	1	0	1	1	1	1	0
0	1	1																					
			1	1	1	1	1	1	0	0	1	0	0	0	1	0	1	0	1	1	1	1	1
1	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
1		0	1	1		0		0	1	0	0	0	0	0	0		0	1	0			0	0
1	1	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
1 0 0 0	1 0 0 0	0 1 1 1 0	1 0 0 0	1 0 0 0	0 0 0	0 1 1 1 0	0 0 0 0	0 1 1 1	1 0 0	0 1 1 1 0	0 1 1 1 0	0 1 1	0 1 1 1 0	0 1 1 1 1	0 1 1 1 0	0 1 1 1 0	0 1 1 1	1 1 1 1	0 0 0 0	0 0 0 0	0 0 0 0	0 0 1 1	0 1 0 1
1 0 0 0 1	1 0 0 0 1	0 1 1 1 0	1 0 0 0 1	1 0 0 0 1	0 0 0 0 1	0 1 1 1 0	0 0 0 0 1	0 1 1 1 1 0	1 0 0 0 1	0 1 1 1 0	0 1 1 1 0	0 1 1 1 0	0 1 1 1 0	0 1 1 1 0	0 1 1 1 0	0 1 1 1 0	0 1 1 1 1 0	1 1 1 1 1 1	0 0 0 0 0	0 0 0 0 0	0 0 0 0 1	0 0 1 1 0	0 1 0 1 0
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1 0 0 0 1	1 0 0 0 1	0 1 1 1 0 1 1 0	1 0 0 0 1	1 0 0 0 1 0 0	0 0 0 0 1	0 1 1 1 0 1 1 0	0 0 0 0 1	0 1 1 1 1 0	1 0 0 0 1	0 1 1 1 0	0 1 1 1 0	0 1 1 1 0	0 1 1 1 0	0 1 1 1 0	0 1 1 1 0	0 1 1 1 0	0 1 1 1 1 0	1 1 1 1 1 1	0 0 0 0 0	0 0 0 0 0	0 0 0 0 1	0 0 1 1 0	0 1 0 1 0
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1 0 0 0 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1	1 0 0 0 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 1 0 1 1 0 0 1 0 1 0 1 0 1 0 1 0 1	1 0 0 0 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1	1 0 0 0 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 1 0	0 1 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	0 0 0 0 1 0 1 1 0 1 0 1 0 1 0	0 1 1 1 1 0 0 1 0 1 0 1 0 1 0 1	1 0 0 0 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1	0 1 1 1 0 1 1 0 0 1 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0	0 1 1 1 0 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0	0 1 1 1 0 1 1 0 0 0 0 0 0 0 0 0	0 1 1 1 0 1 1 0 0 1 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0	0 1 1 1 0 1 1 0 0 1 0 1 0 1 0 0 1 0 0 0 0 0 0 0 0 0	0 1 1 1 0 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0 1 1 1 0 1 1 0 0 1 0 1 0 0 0 0 0 0 0 0	0 1 1 1 1 0 0 1 0 1 0 1 0 1 0 1 0 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 0 0	0 0 0 1 1 1 1 0 0 0 0 1 1 1 1 1 0 0	0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 0 1	0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1
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 $\begin{array}{cccc} c: \ 0-don't \ turn & b: \ 0-down & t: \ \ 0-ccw \\ 1-turn & 1-up & 1-cw \end{array}$

Karnaugh-Diagramme:

				ı	b ₃ t ₀ t ₁	ı			
	C ₀	000	001	011	010	110	111	101	100
	000	1	1	1	1	1	0	1	1
	001	1	1	1	0	0	0	1	1
	011	1	0	1	0	0	0	0	1
$b_0b_1b_2$	010	1	0	1	1	1	0	0	1
	110	1	1	0	0	0	1	1	1
	111	1	1	0	1	1	1	1	1
	101	1	0	0	1	1	1	0	1
	100	1	0	0	0	0	1	0	1

					batot	1			
	Co	900	001	011	010	110	111	101	100
	000	1	1	Μ	(1	1	0	1	/ 1
	001	1	1	1	0	0	0	1	1
	011	1	0	1	0	0	0	0	1
b ₀ b ₁ b ₂	010	1	0	V	(1	1	0	0	1
	110	1	1	Ō	0	0	71	1	1
	111	1		0	1	-	1		1
	101	1	0	0	(I	1	1	0	1
	100	1/	0	0	0	0	\mathbf{V}	0	1

c0 = (|t0 && |t1) || (b0 && b1 && |t0) || (|b0 && |b1 && |t0) || (b0 && b2 && t0 && |t1) || (|b0 && |b2 && t0 && |t1) || (|b0 && |b3 && t0 && |t1) || (|b0 && |b3 && |t0 && |t1) || (|b0 && |b3 && |t1) ||

 $c0 = (!t0 \&\& !t1) \ || \ ((b0 == b1) \&\& !t0) \ || \ ((b0 == b2) \&\& t0 \&\& !t1) \ || \ ((b0 == b3) \&\& t0 \&\& t1);$

				ı	b ₃ t ₀ t ₁	I			
	C ₁	000	001	011	010	110	111	101	100
	000	0	0	0	0	0	0	0	0
	001	0	0	0	0	0	0	0	0
	011	0	1	0	1	1	1	1	0
$b_0b_1b_2$	010	0	1	0	0	0	1	1	0
	110	1	1	0	0	0	1	1	1
	111	1	1	0	1	1	1	1	1
	101	1	0	0	1	1	1	0	1
	100	1	0	0	0	0	1	0	1

					b∋tot	ı			
	C ₁	000	001	011	010	110	111	101	100
	000	0	0	0	0	0	0	0	0
	001	0	0	0	0	9	٥	9	0
	011	0	1	0 (1	1	Y	\cap	0
$b_0b_1b_2$	010	٥	1	0	٩	þ	1	1	0
	110	1	1	0	0	0	(1)	1	71
	111	1	1	0	1		V	U	1
	101	1	0	0			1	0	1
	100	1	0	0	0	0	(1)	0	\1

c1 = (b0 && !t0 && !t1) || (b0 && b3 && t0 & t1) || (b1 && b3 && t1) || (b1 && !t0 & t1) || (!b0 && b1 && b2 && t0 && !t1) || (b0 && b2 && t0 && !t1)

c1 = (((!t0 && !t1) || (b3 && t0 && t1)) && b0) || ((b3 || !t0) && b1 && t1) || (((!b0 && b1) || b0) && b2 && t0 && !t1)

				$o_3 t_0 t_1$				
C ₂	000	001	011	010	110	111	101	100
000	1	1	1	1	1	0	1	1
001	1	1	1	0	0	0	1	1
011	0	1	0	1	1	1	1	0
010	0	1	0	0	0	1	1	0
110	1	1	0	0	0	1	1	1
111	1	1	0	1	1	1	1	1
101	0	1	1	0	0	0	1	0
100	0	1	1	1	1	0	1	0
1 1 1	000 001 011 010 110 111	0000	000	000	000	000	000 1 1 1 1 0 001 1 1 1 0 0 0 011 0 1 0 0 0 0 010 0 1 0 0 0 1 110 1 1 0 0 0 1 111 1 1 0 0 0 0 101 0 1 1 0 0 0	000 1 1 1 1 0 1 001 1 1 1 0 0 0 1 011 0 1 0 1 1 1 1 1 010 0 1 0 0 0 1 1 1 110 1 1 0 0 0 1 1 1 101 0 1 1 0 0 0 1 1 101 0 1 1 0 0 0 1

					batot	1			
	C ₂	000	001	011	010	110	111	101	100
	000	1	\cap	1	V	1)	0	M	1
	001	1	U	1	0	0	٥	V	1
	011	0	1	0	(1	1	/1		0
b ₀ b ₁ b ₂	010	0	1	0	0	0	1	1	0
	110	1		0	0	4	1	1	1
	111	1	17	0	(1	1	V	V	1
	101	0	1	1	0	0	0	1	0
	100	0	11	1	1	1	0	V	0

c2 = (!t0 && t1) || (b0 && b1 && !t0) || (!b0 && !b1 & !t0) || (b1 && b3 && t1) || (!b1 && !b3 && t1) || (b1 && b2 && t0 && !t1) || (!b1 && !b2 && t0 && !t1) || (!b1 && !b3 && t1) || (!b1 && !b3

 $c2 = (!t0 \ \&\& \ t1) \ || \ ((b1 == b0) \ \&\& \ !t0) \ || \ ((b1 == b2) \ \&\& \ t0 \ \&\& \ !t1) \ || \ ((b1 == b3) \ \&\& \ t1)$

		_	_		33 t ₀ t		_	_	
	C ₃	000	001	011	010	110	111	101	100
	000	0	0	0	0	0	0	0	0
	001	0	0	0	1	1	1	0	0
	011	0	1	0	1	1	1	1	0
$b_0b_1b_2$	010	0	0	0	0	0	0	0	0
	110	1	1	0	0	0	1	1	1
	111	1	1	0	1	1	1	1	1
	101	1	0	0	1	1	1	0	1
	100	1	0	0	0	0	1	0	1

					batot₁	I			
	C ₃	000	001	011	010	110	111	101	100
	000	0	0	0	0	0	6	0	0
	001	0	0	0		€	1	Š	0
	011	0	Ξ	0	7	Ð	1	1	0
b ₀ b ₁ b ₂	010	0	0	0	0	0	۳	0	0
	110		1	0	0	0	Δ	1	1
	111	1	1	0	1			1	1
	101	1	0	0			1	0	1
	100	1	0	0	0	Ь	Y	0	J

c3 = (b0 && !t0 && !t1) || (b0 && b1 && !t0) || (b2 && t0 && !t1) || (b2 && b3 && t0) || (b1 && b2 && !t0 && t1) || (b0 && b3 && t0 && t1) || (b2 && b3 && t0 && t1) || (b3 && b3 && t0 && t1) || (b4 && b3 && t0 && t1) || (b5 && b3 && t0 && t1) || (b6 && t1) || (b6 && b3 && t1) || (

 $c3 = ((!t1 \mid\mid b1) \&\& b0 \&\& !t0) \mid\mid ((!t1 \mid\mid b3) \&\& b2 \&\& t0) \mid\mid (((b1 \&\& b2 \&\& !t0) \mid\mid (b0 \&\& b3 \&\& t0)) \&\& t1)$

				F	B ₃ t ₀ t	1			
	C4	000	001	011	010	110	111	101	100
	000	0	0	0	0	0	1	0	0
	001	0	0	0	1	1	1	0	0
	011	0	1	0	1	1	1	1	0
$b_0b_1b_2$	010	0	1	0	0	0	1	1	0
	110	1	1	0	0	0	1	1	1
	111	1	1	0	1	1	1	1	1
	101	1	0	0	1	1	1	0	1
	100	1	0	0	0	0	1	0	1

					Batot	ı			
	C ₄	000	001	011	010	110	111	101	100
	000	0	0	0	0	0	/ 1	0	0
	001	0	0	0	1	-	1	0	0
	011	0	1	0	J	1	1	1	0
b ₀ b ₁ b ₂	010	7	1	0	0	0	1	1	6
	110	1	1	0	0	9	1	1	1
	111	1	1	0	1	1	1	U	1
	101	1	Ū	0	1		1	Ō	1
	100	1	0	0	0	0	1	0	1
							V		

 $c4 = (b3 \&\& t0 \&\& t1) \mid\mid (b2 \&\& t0 \&\& !t1) \mid\mid (b1 \&\& !t0 \&\& t1) \mid\mid (b0 \&\& !t0 \&\& !t1)$

 $c4 = (((b3 \&\& t1) \mid\mid (b2 \&\& !t1)) \&\& t0) \mid\mid (((b1 \&\& t1) \mid\mid (b0 \&\& !t1)) \&\& !t0)$

				ı	o ₃ t ₀ t	ı			
	C 5	000	001	011	010	110	111	101	100
	000	0	0	0	0	0	1	0	0
	001	0	0	0	0	1	1	0	0
	011	0	1	0	1	1	1	1	0
$b_0b_1b_2$	010	0	1	0	0	0	1	1	0
	110	1	1	0	0	0	1	1	1
	111	1	1	0	1	1	1	1	1
	101	0	0	0	0	1	1	0	1
	100	0	0	0	0	0	1	0	1

		batot1							
	C ₅	000	001	011	010	110	111	101	100
	000	0	0	0	0	0	L	0	0
	001	0	٥	0	0		1	0	0
	011	0	/1)	0	•		1	\cap	0
$b_0 b_1 b_2$	010	0	1	0	0	0	1	1	0
	110	1	1	0	0	0	1	1	
	111	1	abla	0	(1		1		7
	101	0	0	0	0	J	1	Ō	1
	100	0	0	0	0	0	77	0	U

c5 = (b3 && t0 && t1) || (b1 && !t0 && t1) || (b0 && b1 && !t0) || (b0 && b3 && !t0 && !t1) || (b1 && b2 && t0 && !t1) || (b2 && b3 && t0);

 $c5 = (((b3 \&\& t0) \parallel (b1 \&\& !t0)) \&\& t1) \parallel (((b3 \&\& !t1) \parallel b1) \&\& b0 \&\& !t0) \parallel (((b1 \&\& !t1) \parallel b3) \&\& b2 \&\& t0)$

	b ₃ t ₀ t ₁									
	C ₆	000	001	011	010	110	111	101	100	
	000	1	1	1	1	1	0	1	1	
	001	0	0	0	1	1	1	0	0	
	011	0	1	0	1	1	1	1	0	
$b_0b_1b_2$	010	1	0	1	1	1	0	0	1	
	110	0	0	1	1	1	0	0	0	
	111	1	1	0	1	1	1	1	1	
	101	1	0	0	1	1	1	0	1	
	100	0	1	1	1	1	0	1	0	

					batot	ı			
	C ₆	000	001	011	018	10	111	101	100
	000	1	(ı)	\odot	D	1	0	Ū	•
	001	0	0	0	1	71	1	0	0
	011	0	(1)	0	1	1	1		0
b ₀ b ₁ b ₂	010	1	0		1	1	0	0	1
	110	0	0	Ū	17	1	9	0	0
	111	1	(1)	0	1	1	1	1	1
	101	1	0	0	1	U	1	0	J
	100	0	M	(D	17	0	\cap	0

c6 = (t0 && !t1) || (b1 && b2 && !t0 && t1) || (b0 && b2 && !t0 && !t1) || (!b0 && !b2 && !t0 && !t1) || (b2 && b3 && t0) || (!b2 && !b3 && t0) || (b1 && b2 && !t0 && t1) || (!b1 && !b2 && !t0 && t1);

c6 = (t0 && !t1) || ((b2==b0) && !t0 && !t1) || ((b2==b1) && !t0 && t1) || ((b2==b3) && t0)

	b ₃ t ₀ t ₁									
	C ₇	000	001	011	010	110	111	101	100	
	000	0	0	0	0	0	1	0	0	
	001	0	0	0	1	1	1	0	0	
	011	0	1	0	1	1	1	1	0	
$b_0b_1b_2$	010	0	0	0	0	0	1	1	0	
	110	0	0	0	0	0	1	1	1	
	111	1	1	0	1	1	1	1	1	
	101	1	0	0	1	1	1	0	1	
	100	0	0	0	0	0	1	0	1	

					batot	ı			
	C7	000	001	011	010	110	111	101	100
	000	0	0	0	0	0	/¹\	0	0
	001	0	0	0		-	1	0	0
	011	0	(1)	0	6	7	1		0
b ₀ b ₁ b ₂	010	0	0	0	0	0	1	1	0
	110	0	0	0	0	0	1	1	\cap
	111	1		0	1	-	V		1
	101	7	0	0	7	7	1	0	7
	100	0	0	0	0	0	V	0	V

c7 = (b3 && t0 && t1) || (b1 && b3 && t1) || (b1 && b2 && !t0 && !t1) || (b2 && t0 && !t1) || (b0 && b2 && !t0 && !t1) || (b0 && b3 && !t0 && !t1)

 $c7 = ((b1 \mid\mid t0) \&\& b3 \&\& t1) \mid\mid (((b1 \&\& !t0 \&\& t1) \mid\mid (t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b0 \&\& !t1)) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b2) \&\& [(b2 \mid\mid b3) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b2) \&\& [(b2 \mid\mid b3) \&\& b2) \mid\mid ((b2 \mid\mid b3) \&\& b2) \&\& [(b2 \mid\mid b3) \&\&$

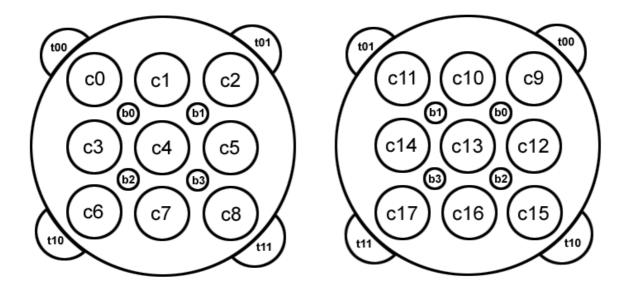
		_	_		$b_3 t_0 t_1$		_	_	
	C ₈	000	001	011	010	110	111	101	100
	000	1	1	1	1	0	1	0	0
	001	1	1	1	0	1	1	0	0
	011	1	0	1	0	1	1	1	0
$b_0b_1b_2$	010	1	0	1	1	0	1	1	0
	110	0	0	1	1	0	1	1	1
	111	0	0	1	0	1	1	1	1
	101	0	1	1	0	1	1	0	1
	100	0	1	1	1	0	1	0	1

			bato t1						
	C ₈	000	001	011	010	110	111	101	100
	000	1	(1	O	1)	0	I^{γ}	0	0
	001	1	1		0			0	0
	011	1	0	1	0	J			0
$b_0b_1b_2$	010	Ē	0	7		0	1	1	0
	110	0	0	J	ワ	0	1	1	M
	111	0	0	1	0	1	O		1
	101	0	1		0	J	D	0	1
	100	0	J	U	1)	0	11	0	1

c8 = (t0 && t1) || (b0 && b3 && !t0 && !t1) || (!b0 && !b3 && !t0 && !t1) || (b1 && b3 && t1) || (!b1 && !b3 && t1) || (b2 && b3 && t0) || (!b2 && !b3 && t0)

c8 = (t0 && t1) || ((b3==b0) && !t0 && !t1) || ((b3==b1) && t1) || ((b3==b2) && t0)

- er Block 6 Bedingungen
- 2 er Block - 5 Bedingungen
- 4 er Block 4 Bedingungen
 8 er Block 3 Bedingungen
 16 er Block 2 Bedingungen



```
Java- Programm:
class clock
          [] c = new int [18];
     boolean [] b = new boolean [4];
     public boolean invert (boolean bool)
       return (bool ? false : true);
     }
     public void push (int button)
       if (button >=0 && button <=3)
                                              b[button] = b[button] ? false : true;
     public void push (int button, boolean state)
       if (button >=0 && button <=3)
                                              b[button] = state;
     public void turn (int wheel, int num)
       boolean t0, t1, b0 = b[0], b1 = b[1], b2 = b[2], b3 = b[3];
       boolean [] d = new boolean [9];
       switch (wheel)
       {
                 case 0: t0 = false; t1 = false; break;
                 case 1: t0 = false; t1 = true; break;
                 case 2: t0 = true; t1 = false; break;
                 case 3: t0 = true; t1 = true; break;
                 default: return;
       for (int i=0; i<2; i++)
                 d[0] = (!t0 \&\& !t1) || ((b0==b1) \&\& !t0) || ((b0==b2) \&\& t0 \&\& !t1) || ((b0==b3) \&\& t0 \&\& t1);
                 d[1] = (((!t0 && !t1) || (b3 && t0 && t1)) && b0) || ((b3 || !t0) && b1 && t1) || (((!b0 && b1) || b0) && b2 && t0 && !t1);
                 d[2] = (10 \&\& t1) || ((b1 == b0) \&\& 10) || ((b1 == b2) \&\& t0 \&\& 1t1) || ((b1 == b3) \&\& t1);
                 d[3] = ((!t1 || b1) && b0 && !t0) || ((!t1 || b3) && b2 && t0) || (((b1 && b2 && !t0) || (b0 && b3 && t0)) && t1);
                 d[4] = (((b3 \&\& t1) || (b2 \&\& !t1)) \&\& t0) || (((b1 \&\& t1) || (b0 \&\& !t1)) \&\& !t0);
                 d[5] = (((b3 && t0) || (b1 && !t0)) && t1) || (((b3 && !t1) || b1) && b0 && !t0) || (((b1 && !t1) || b3) && b2 && t0);
                 d[6] = (t0 \&\& !t1) || ((b2=b0) \&\& !t0 \&\& !t1) || ((b2=b1) \&\& !t0 \&\& t1) || ((b2=b3) \&\& t0);
                 d[7] = ((b1 || t0) && b3 && t1) || (((b1 && !t0 && t1) || (t0 && !t1)) && b2) || ((b2 || b3) && b0 && !t0 && !t1);
                 d[8] = (t0 && t1) || ((b3==b0) && !t0 && !t1) || ((b3==b1) && t1) || ((b3==b2) && t0);
                 for (int j=0; j<9; j++)
                          if (d[i]) c[i+9*i] = (c[i+9*i]+=num)%12 < 0 ? c[i+9*i]%12+12 : c[i+9*i]%12;
                 num=-num; b0 = invert(b0); b1 = invert(b1); b2 = invert(b2); b3 = invert(b3);
     }
}
```