Ones Digit 1	Truth Table												
		Cui	rrent						Next				
Number	U/D	Q3		Q2	Q1	Q0	Numbe	r	Q3	Q2	Q1	Q0	CountEn1
	0	0	0	0	0	0		1	0	0	0	1	0
	1	0	0	0	0	1		2	0	0	1	0	0
	2	0	0	0	1	0		3	0	0	1	1	0
	3	0	0	0	1	1		4	0	1	0	0	0
	4	0	0	1	0	0		5	0	1	0	1	0
	5	0	0	1	0	1		6	0	1	1	0	0
	6	0	0	1	1	0		7	0	1	1	1	0
	7	0	0	1	1	1		8	1	0	0	0	0
	8	0	1	0	0	0		9	1	0	0	1	0
	9	0	1	0	0	1		0	0	0	0	0	1
	0	1	0	0	0	0		9	1	0	0	1	1
	1	1	0	0	0	1		0	0	0	0	0	0
	2	1	0	0	1	0		1	0	0	0	1	0
	3	1	0	0	1	1		2	0	0	1	0	0
	4	1	0	1	0	0		3	0	0	1	1	0
	5	1	0	1	0	1		4	0	1	0	0	0
	6	1	0	1	1	0		5	0	1	0	1	0
	7	1	0	1	1	1		6	0	1	1	0	0
	8	1	1	0	0	0		7	0	1	1	1	0
	9	1	1	0	0	1		8	1	0	0	0	0

rens Digit	Truth Table													
				rrent						Next				
Number	CountEn1	U/D	Q7			Q5	Q4		Number	Q7	Q6	Q5	Q4	CountEn2
		1	0	0	0			0	1					
		1	0	0	0	0		1	2	2 0	C	1	0	
	2	1	0	0	0	1		0	3	3 0	C	1	1	
	3	1	0	0	0	1		1	4	1 C	1	0	0	
	4	1	0	0	1	0		0	5	5 0	1	0	1	
	5	1	0	0	1	0		1	6	6 0) 1	1	0	
	6	1	0	0	1	1		0	7	7 0	1	1	1	
	7	1	0	0	1	1		1	8	3 1	C	0	0	
		1	0	1	0	0		0	9) 1	C	0	1	
	9	1	0	1	0	0		1	() (0	0	
	0	1	1	0	0	0		0	9	9 1	C) 0	1	
		1	1	0	0			1						
		1	1	0	0	1		0	1					
			1	0	0			1	2					
		1	1		1									
		1	1	0		0		0	3	_				
		1	1	0	1	0		1	4	-				
		1	1	0	1	1		0		5 0				
		1	1	0	1	1		1		6 0				
		1	1	1	0	0		0	7					
	9	1	1	1	0	0		1	3	3 1	C	0	0	
	0	0	0	0	0	0		0	(0	C	0	0	
	1	0	0	0	0	0		1	1	1 0	0	0	1	
	2	0	0	0	0	1		0	2	2 0	C) 1	0	
	3	0	0	0	0	1		1	3	3 0	C) 1	1	
	4	0	0	0	1	0		0	4	1 C) 1	0	0	
	5	0	0	0	1	0		1	5	5 0) 1	0	1	
		0	0	0	1			0	6					
		0	0	0	1	1		1	7					
		0	0	1	0			0						
		0	0	1	0			1	9					
	J	0			0			1		'		, 0	'	
	0	0	1	0	0	0		0	() () 0	0	
			1											
		0	1	0	0	0		1	1					
		0	1	0	0	1		0	2					
		0	1	0	0			1		3 0				
		0	1	0	1	0		0	4					
		0	1	0	1			1	5	5 0				
		0	1	0	1	1		0	6	6 0				
	7	0	1	0	1	1		1	7	7 0	1	1	1	
	8	0	1	1	0	0		0	3	3 1	C	0	0	
	9	0	1	1	0	0		1	() 1	C	0	1	

•	it Truth Table											
			Current					Nex				
umber	CountEn2	U/D	Q11	Q10	Q9	Q8	Number	Q11			Q9	Q8
			0	0 0				1	0	0	0	
1			0	0 0				2	0	0	1	
			0	0 0		-		3	0	0	1	
			0	0 0				4	0	1	0	
			0	0 1				5	0	1	0	
			0	0 1				6	0	1	1	
6			0	0 1				7	0	1	1	
7			0	0 1				8	1	0	0	
8			0	1 0				9	1	0	0	
(9	1	0	1 0	0	1		0	0	0	0	
					_	_				_		
		1	1	0 0				9	1	0	0	
1		•	1	0 0				0	0	0	0	
		1	1	0 0				1	0	0	0	
		1	1	0 0				2	0	0	1	
4		1	1	0 1				3	0	0	1	
		1	1	0 1				4	0	1	0	
		1	1	0 1				5	0	1	0	
		1	1	0 1				6	0	1	1	
8		-	1	1 0				7	0	1	1	
			1	1 0				8	1	0	0	
)		0	0 0				0	0	0	0	
1			0	0 0				1	0	0	0	
	2		0	0 0				2	0	0	1	
	3		0	0 0				3	0	0	1	
	4		0	0 1				4	0	1	0	
	5		0	0 1				5	0	1	0	
-			0	0 1				6	0	1	1	
	7		0	0 1				7	0	1	1	
	3		0	1 0				8	1	0	0	
,	9	0	0	1 0	0	1		9	1	0	0	
		0	1	0 0	0				0	^		
		-	1	0 0				0	0	0	0	
1	2	0	1	0 0				1	0	0	0	
		-	1					2	0			
	3	0	1	0 0				3	0	0	1	
	4	0	1	0 1				4	0	1	0	
5		0	1	0 1				5	0	1	0	
-		0	1	0 1		-		6	0	1	1	
	7		1	0 1				7	0	1	1	
8	9	0	1	1 0				8	1	0	0	

Ones Digit K	-Мар												
ayer Q0 out			Q1*Q0				Layer Q1 out			Q1*Q0			
		00	01	11	10				00	01	11	10	
	00	1	0	0	1			00	0	1	0	1	
Q3*Q2	01	1	0	0	1		Q3*Q2	01	0	1	0	1	
	11	x	x	x	x			11	x	x	x	x	
	10	1	0	x	x			10	0	0	x	x	
						U/D=0							U/D=0
			Q1*Q0							Q1*Q0			
		00	01	11	10				00	01	11	10	
	00	1	0	0	1			00	0	0	1	0	
Q3*Q2	01	1	0	0	1		Q3*Q2	01	1	0	1	0	
40 42	11	X	x	x	x		40 42	11	x	x	x	x	
	10	1	0	X	x			10	1	0	x	x	
				^	^	U/D=1		10		U		^	U/D=1
Layer Q2 out			Q1*Q0				Layer Q3 out			Q1*Q0			
		00	01	11	10				00	01	11	10	
	00	0	0	1	0			00	0	0	0	0	
Q3*Q2	01	1	1	0	1		Q3*Q2	01	0	0	1	0	
	11	x	x	x	x			11	x	x	x	x	
	10	0	0	x	x			10	1	0	x	x	
						U/D=0							U/D=0
			Q1*Q0							Q1*Q0			
		00	01	11	10				00	01	11	10	
	00	0	0	0	0			00	1	0	0	0	
Q3*Q2	01	0	1	1	1		Q3*Q2	01	0	0	0	0	
	11	x	x	x	x			11	х	x	х	х	
	10	1	0	x	x			10	0	1	х	х	
						U/D=1							U/D=1

ens Digit K-													
	Jounten1 = 1		Q5*Q4				Layer Q5 out			Q5*Q4			
Layer Q4 out				44	40		Layer Q5 out				44	40	
		00	01	11	10				00	01	11	10	
	00	1	0	0	1			00	0	1	0	1	
Q7*Q6	01	1	0	0	1		Q7*Q6	01	0	1	0	1	
	11	X	X	х	X			11	x	X	x	х	
	10	1	0	х	x			10	0	0	x	x	
						U/D=0							U/D=0
			Q5*Q4							Q5*Q4			
		00	01	11	10				00	01	11	10	
	00	1	0	0	1			00	0	0	1	0	
Q7*Q6	01	1	0	0	1		Q7*Q6	01	1	0	1	0	
	11	X	x	x	x			11	x	x	x	x	
	10	1	0	x	x			10	1	0	x	x	
						U/D=1							U/D=1
Layer Q6 out			Q5*Q4				Layer Q3 out			Q5*Q4			
		00	01	11	10				00	01	11	10	
	00	0	0	1	0			00	0	0	0	0	
Q7*Q6	01	1	1	0	1		Q7*Q6	01	0	0	1	0	
	11	х	x	х	x			11	x	x	x	x	
	10	0	0	х	x			10	1	0	x	х	
						U/D=0							U/D=0
			Q5*Q4							Q5*Q4			
		00	01	11	10				00	01	11	10	
	00	0	0	0	0			00	1	0	0	0	
Q7*Q6	01	0	1	1	1		Q7*Q6	01	0	0	0	0	
	11	x	x	x	x			11	x	x	x	x	
	10	1	0	x	X			10	0	1	x	x	
		'	J	^	^	U/D=1			0		^	^	U/D=1
						0/D-1	I						0/0-1

lundreds Dig													
ONLY WHEN C	ountEn2 = 1		00+00				1 001			00+00			
_ayer Q8 out			Q9*Q8				Layer Q9 out			Q9*Q8			
		00	01	11	10				00	01	11	10	
	00	1	0	0	1			00	0	1	0	1	
Q11*Q10	01	1	0	0	1		Q11*Q10	01	0	1	0	1	
	11	X	X	x	x			11	x	х	X	x	
	10	1	0	x	x			10	0	0	x	x	
						U/D=0							U/D=0
			00+00							00+00			
			Q9*Q8							Q9*Q8			
		00	01	11	10				00	01	11	10	
	00	1	0	0	1			00	0	0	1	0	
	01	1	0	0	1		Q11*Q10	01	1	0	1	0	
	11	X	x	x	x			11	x	X	x	X	
	10	1	0	x	X			10	1	0	X	x	
						U/D=1							U/D=1
Layer Q10 out			Q9*Q8				Layer Q11 out			Q9*Q8			
		00	01	11	10				00	01	11	10	
	00	0	0	1	0			00	0	0	0	0	
Q11*Q10	01	1	1	0	1		Q11*Q10	01	0	0	1	0	
	11	x	x	x	x			11	x	x	x	x	
	10	0	0	x	x			10	1	0	x	x	
						U/D=0							U/D=0
			Q9*Q8							Q9*Q8			
		00	01	11	10				00	01	11	10	
	00	0	0	0	0			00	1	0	0	0	
Q11*Q10	01	0	1	1	1		Q11*Q10	01	0	0	0	0	
	11	x	x	x	x			11	x	x	x	x	
	10	1	0	x	X			10	0	1	x	x	
		<u>'</u>	-			U/D=1							U/D=1
						·							U