Block constr	uction		Nameless det	finition	
(Start block for IF or WHILE			Start nameless definition
)		End block for IF or WHILE	1	I – v	End nameless definitions
Control flow		End block for it of write	J	•	End nameless definitions
·		End of Word	EX	V	Run a word from address
Conditional		Life of Word	LX	•	itan a word from address
0?	l a a	is TOS=Zero? conditional	1?	a a	is TOS<>Zero? conditional
+?	па а	is TOS=2010: conditional	-?	a a	is TOS<0?
</td <td> a b a</td> <td>is a<b? remove="" td="" tos<=""><td>>?</td><td> a b a</td><td>is a>b? remove TOS</td></b?></td>	a b a	is a <b? remove="" td="" tos<=""><td>>?</td><td> a b a</td><td>is a>b? remove TOS</td></b?>	>?	a b a	is a>b? remove TOS
=?	a b a	is a=b? remove TOS	>=?	a b a	is a>=b? remove TOS
<=?	a b a	is a<=b? remove TOS	<>?	a b a	is a<>b? remove TOS
AND?	a b c	is a AND b? remove TOS	NAND?	a b c	is a NAND b? remove TOS
IN?	a b c a	is b<=a<=c? Remove 2TOS	NAND:	a b c	IS A TVAINED BY TERROVE TOS
Stack moven		13 b = a = c: Nelliove 2103			
DUP	a – aa	duplicate TOS	DROP	a	remove TOS
OVER	ab aba	duplicate Second of Stack	PICK2	l abc abca	Pick 3 element
PICK3	'	Pick 4 element	PICK4	abcde abcdea	
SWAP	ab ba	swap TOS ans NOS	NIP	ab b	remove NOS
ROT	l abc bca	Rotate 3 top element	2DUP	ab abab	Duplicate 2 values of top
2DROP		Remove 2 elements	3DROP	•	Remove 3 elements
	ab			abc abcd abcdab	
4DROP	abcd	Remove 4 elements	20VER	abcu abcuab abc – cab	Copy 2 lower elemenst
2SWAP	abcd cdab	Swap 4 elements	-ROT	anc – can	Rotate to back
Return Stack		note also	D.	1 -	unto al un
>R	a	rstack: a	R>	a	rstack: a
R@	a	rstack: a a			
Logic operat		AND I	0.5		0.01
AND	a b c	c=a AND b	OR	a b c	c=a OR b
XOR	a b c	c=a XOR b	NOT	a b	b=NOT a
NAND	a b – c	c=NOT a AND b			
Aritmetic op				l	
+	a b c	d=a+b	-	a b c	d=a-b
	a b c	d=a*b	/	a b c	d=a/b
<<	a b c	d=a shift left b	>>	a b c	d=a shift rigth b
>>>	a b c	d=a shift rigth b w/o sign	MOD	a b c	d=a mod b
/MOD	a b c d	c=a/b d=a mod b	*/	a b c d	d=a*b/c - not bit loss
*>>	a b c d	d=(a*b)>>c – not bit loss	< </td <td> a b c d</td> <td>d=(a<<c) b="" bit="" loss<="" not="" td="" –=""></c)></td>	a b c d	d=(a< <c) b="" bit="" loss<="" not="" td="" –=""></c)>
NEG	a b	b=-a	ABS	a b	b= a
		b=square root(a)	CLZ	a b	b=count lead zeros of a
Memory fetc					
@	a [a]	fetch dword adress	C@	a – byte[a]	fetch byte from adress
W@	a – word[a]	fetch word adress	D@	a – dword[a]	fetch dword adress
@+	a b [a]	fetch qword and inc 8	C@+	a b byte[a]	fetch byte and inc 1
W@+	a b word[a]	fetch word and inc 2	D@+	a b dword[a]	fetch dword and inc 4
!	a b	store A in adress B	C!	a b	store byte A in adress B
W!	a b	store word A in adress B	D!	a b	store dword A in adress B
!+	a b c	store A in B and inc 8	C!+	a b c	store byte A in B and inc 1
W!+	a b c	store word A in B and inc 2	D!+	a b c	store dword A in B and inc 4
+!	a b	increment in mem B, A	C+!	a b	increment in mem B, byte A
W+!	a b	increment in mem B,word A	D+!	a b	increment in mem B, dword A
Auxiliary reg	isters				
>A	a	load register A	B>	a	push register B
A>	a	push register A	>B	a	load register B
A+	a	add to A	B+	a	add to B
A@	a	fetch from A	В@	a	fetch from B
A!	a	store in mem A	B!	a	store in mem B
A@+	a	fetch A and inc 8	B@+	a	fetch B and inc 8
A!+	a	store in mem A, inc 8	B!+	a	store in mem A, inc 8
CA@	a	fetch from A	CB@	a	fetch from B
		1			

CA!	a	store in mem A	CB!	a	store in mem B
CA@+	a	fetch A and inc 1	CB@+	a	fetch B and inc 1
CA!+	a	store in mem A, inc 1	CB!+	a	store in mem A, inc 1
DA@	a	fetch from A	DB@	a	fetch from B
DA!	a	store in mem A	DB!	a	store in mem B
DA@+	a	fetch A and inc 4	DB@+	a	fetch B and inc 4
DA!+	a	store in mem A, inc 4	DB!+	a	store in mem A, inc 4
Memory copy	y and fill				
MOVE	d s c	copy S to D, C qword	MOVE>	d s c	copy from S to D, C qword in rev.
FILL	d v c	fill D, C qword with V	CMOVE	d s c	copy from S to D, C bytes
CMOVE>	d s c	copy S to D, C bytes in rev.	CFILL	d v c	fill from D, C bytes with V
DMOVE	d s c	copy S to D, C dwords	DMOVE>	d s c	copy from S to D, C dwords in rev.
DFILL	d v c	fill D, C dwords with V			
Operating System					
MEM	a	start memory free	LOADLIB	"name" – liba	Load library a get adr
GETPROC	liba "name" – a	get function name, get adr	SYS0	adr – r	call function with no parameters
SYS1	a adr – r	call function with 1 param	SYS2	a b adr -r	to SYS10

Prefix	
:	define CODE, :: Export word
#	define DATA, ## Export word
^	Include source code in filename
'	Adress of word, code or data
	Commento to end of the line
"	String to next ", "" for " character
\$	Hex numbers
%	Binary numbers, 0 can be .

Data Definition		
qword	#var 0	
qword list	#list 1 2 3 4 5	
byte list	#blist (1 2 3 4)	
dword list	#dlist [1 2 3 4]	
memory	#buffer * 1024 1kb size	
vectors	#vector 'actionword	
list jump	#listj 'a1 'a2 'a3	

Control Flow	
REPEAT	(loop)
IF	?? (true branch)
WHILE	(while ?? loop)
MULTI WHILE	(while ?? while ?? loop)
IF-ELSE	factoring to new word
	:ifelse ?? (true ;) false ;

Comment work like option switchs		
WIN	in win, the line is not a comment	
LIN	in linux,	
WEB	In web,	
MAC	In MAC,	
RPI	In Raspberry Pi,	
MEM 640	data memory size (in kb) min 1kb	