1) Origin	nal Grammar	5) (	) *	۱+ ,	-	1	0 1	2 3	4 5	6	7 8	9 :	; =	a b	c c	d v	v f	integer "value="	, begin	end. p	rogram write	e var	\$ A	в с	D E	F G	H I	L	N P	R S	T W	X Y
<pre><pre><pre><pre></pre></pre></pre></pre>	☐ program <identifier>; var <dec-list> begin <stat-list> end.</stat-list></dec-list></identifier>	0																														
<pre> <pre>prog&gt;</pre></pre>	□ <letter>{<letter> <digit>} note: this</digit></letter></letter>	0																			2									1		
<identifier></identifier>	grammar is in EBNF	1																					acc									
<dec-list></dec-list>	□ <dec> : <type> ;</type></dec>	2												s5 s	6 s7	s8 s	9 s10	1										3 4	4			
<dec></dec>	□ <identifier>,<dec>  &lt; identifier&gt;</dec></identifier>	3											s11																			
<type></type>	□ integer	4	r3 r3	r3 i	3 r3	r3 s12	s13 s14	4 s15	s16 s17	s18 s1	19 s20 s	21 r3	r3 r3	s5 s	6 s7	s8 s	9 s10	1									22	23	š			24
<stat-list></stat-list>		5					r47 r47																									
<stat></stat>	□ <write>   <assign></assign></write>	6	r48 r48	r48 i	48 r48	r48 r48	r48 r48	3 r48 r	r48 r48	r48 r4	18 r48 r	48 r48	r48 r48	r48 r-	48 r48	r48 r	48 r48															
<write></write>	□ write ( <str> &lt; identifier &gt; );</str>	7	r49 r49	r49 i	49 r49	r49 r49	r49 r49	9 г49 г	г49 г49	r49 r4	19 r49 r	49 r49	r49 r49	r49 r	49 г49	r49 r	49 г49															
<str></str>	□"value=",   λ	8					r50 r50																									
<assign></assign>	□ < identifier > = <expr>;</expr>	9	r52 r52	r52 r	52 r52	r52 r52	r52 r52	2 r52 r	r52 r52	r52 r5	2 r52 r	52 r52	r52 r52	r52 r	52 r52	r52 r	52 r52															
	□ <expr> + <term>   <expr> - &lt; <term>   &lt;</term></expr></term></expr>																															
<expr></expr>	term>	10	r51 r51	r51 i	51 r51	r51 r51	r51 r51	1 r51 i	r51 r51	r51 r5	1 r51 r	51 r51	r51 r51	r51 r	51 r51	r51 r	51 r51															
<term></term>	<term> * <factor>   <term> / <factor>  </factor></term></factor></term>	11																				s25										
<factor></factor>	□ < identifier >   <number>   ( <expr> )</expr></number>	12	137 137	r37	37 r37	r37 r37	r37 r37	7 137	37 37	r37 r3	7 r37 r	37 r37	137 137	- 137 r	37 137	r37 r	37 r37					523										
-incros-	sign> <digit>{<digit>} note: this</digit></digit>		107 107	107	01 101	101	107 107	102	107	107 10	, 10, 1		107 107	101	0, 10,	107	01 101															
<number></number>	grammar is in EBNF	13	r38 r38	r38 i	38 r38	r38 r38	r38 r38	3 r38 r	r38 r38	r38 r3	18 r38 r	38 r38	r38 r38	r38 r	38 r38	r38 r3	38 r38															
<sign></sign>	□ +   -   λ	14	r39 r39	r39 i	39 r39	r39 r39	r39 r39	9 r39 i	r39 r39	r39 r3	19 r39 r	39 r39	r39 r39	r39 r	39 r39	r39 r	39 r39															
<digit></digit>	□ 0 1 2  9	15	r40 r40	r40 i	40 r40	r40 r40	r40 r40	r40 i	r40 r40	r40 r4	10 r40 r	40 r40	r40 r40	r40 r	40 r40	r40 r	40 r40															
<letter></letter>	□ a b c d w f	16	r41 r41	r41 i	41 r41	r41 r41	r41 r41	1 r41 i	r41 r41	r41 r4	1 r41 r	1 r41	r41 r41	r41 r-	41 r41	r41 r	41 r41															
		17					r42 r42																									
		18					r43 r43																									
2) \= lambda	3)	19					r44 r44																									
P -> program I ; var C begin G end.	P -> program I ; var C begin G end.	20					r45 r45																									
I -> LX	I->LX	21					r46 r46																									
X -> LX	I⇒L	22					s13 s14																				22	23				26
X -> HX	X -> LX	23					s13 s14	4 s15	s16 s17	s18 s1	19 s20 s				6 s7	s8 s	9 s10										22	23	-			27
X->\	X -> HX	24	r2 r2	r2 i	2 r2	r2						r2	r2 r2																			
C -> D : Y ;	X-> H	25	-	1.	_									s5 s	6 s7	s8 s	9 s10	1						28	29			30 4	-			
D->1, D	C → D · Y ·	26			5 r5								r5 r5																			
D -> I		27	r4 r4	r4 i	4 14	r4						r4	r4 r4																			
Y -> integer	D -> I , D	28																	s31													
G -> B G -> BG	D -> I	29			-33							s32																				
B -> W	Y -> integer	- 00			s33							r10					-											-				
	G → B G → BG	31												s5 s	6 s7	s8 s	9 s10				s39		34	35		36		37 4	-		38	38 4
B -> A W -> write ( RI );	G -> BG B -> W	32												-	6 s7			s41														4
R -> "value=" ,	B-> W B-> A	33													15 r15					r15					42			30 4				
R -> \value= ',		34																		r15 r12	r15 s39		34	0.5		43		37 4			38	
A -> I = E;	W -> write ( RI ) ; W -> write ( I ) ;	36												S5 S	6 s7	S8 S	9 510	'		F12	539		34	35		43		3/ 4	-		38	58
E -> E + T	w -> write (1); R -> "value=",	37											845							544												
E->E-T	A -> I = F :	38											545		14 r14	-11 -	44 -44			r14	r14											
E -> T	A⇒1-E, E⇒E+T	39 846												114 1	14 114	114 1	14 114			114	114											
T-> T*F	E⇒E-T	40											s47																			
T -> T / F	E->T	41											r11																			
T ⇒ F	T⇒T*F	42										г9																				
F -> I	T → T / F	43										10								r13												
F-> N	T⇒F	44																		113			r1									
F -> (E)	F->I	45 s48		s49	s50	613	s13 s14	4 c15	c16 c17	c19 c1	10 620 6	21		cs c	6 s7	.0 .	0 610								51	62	62	54 4	56	56	57	
N -> SHZ	F-> N	46		040	530	512	. 515 514	4 515	310 317	510 51	10 020 0	21		o5 o			9 s10								31	JZ		58 4		59	31	
Z-> HZ	F->(E)	47												55 5	50 57	50 5	5 510	800	r8									30 4		38		
Z->\	N -> SHZ	48 s48		s49	s50	e12	s13 s14	4 015	e16 e17	e18 e1	10 e20 e	21		c5 c	6 s7	eR e	Q e10		10						61	52	53	54 4	55	56	57	
S -> +	N -> SH	49		2.40	300		r35 r35								3,	0	. 5.0											"		30		
S -> -	N -> HZ	50					r36 r36																									
S -> \	N -> H	51		s62	s63		1						s64																			
H -> 0	Z -> SHH	52	r25 r25		r25	r25							r25																			
H ⇒ 1	Z-> SH	53	r32 r32				s13 s14	4 s15	s16 s17	s18 s1	19 s20 s	21	r32														65					
H -> 2	Z -> H	54	r26 r26	r26	r26	r26							r26																			
H -> 3	Z -> HH	55	r27 r27		r27	r27							r27																			
H -> 4	S->+	56				s12	s13 s14	4 s15	s16 s17	s18 s1	19 s20 s	21															67					
H -> 5	S-> -	57	r22 s68	3 г22	r22	s69							r22																			
H -> 6	H-> 0	58	s70																													
H -> 7	H -> 1	59												s5 s	6 s7	s8 s	9 s10	1										71 4				
H -> 8	H -> 2	60			572																											
H -> 9	H -> 3	61	s73	s62	s63																											
L -> a	H -> 4	62 s48		s49	s50		s13 s14								6 s7											52		54 4			74	
L ⇒ b	H -> 5	63 s48		s49	s50	s12	s13 s14	4 s15	s16 s17	s18 s1	19 s20 s	21		s5 s	6 s7	s8 s	9 s10									52	53	54 4	55	56	75	
L -> c	H -> 6	64												r19 r	19 r19	r19 r	19 r19			r19	r19											
L -> d	H -> 7	65	r34 r34				s13 s14	4 s15	s16 s17	s18 s1	19 s20 s	21	r34														65					
L -> w	H -> 8	66	r31 r31		r31								r31																			
L -> f	H -> 9	67	r30 r30	, 100	100		s13 s14						r30														65					
	L -> a	68 s48		s49	s50		s13 s14								6 s7											78		54 4		56		
	L -> b	69 s48		s49	s50	s12	s13 s14	4 s15	s16 s17	s18 s1	19 s20 s	21		s5 s	6 s7	s8 s	9 s10									79	53	54 4	55	56		
	L-> c	70 71	.00										s80																			
			s81																													
	L -> d														40	40	40															
	L -> w	72	20 20	-20	-20	-20							-20	r18 r	18 r18	r18 r	18 r18															
			r28 r28		r28 r20								r28 r20	г18 г	18 r18	г18 г	18 r18															

4) FIRST	FOLLOW	76 r33 r33 r33	r33 r33	r33	
P program	s	77 r29 r29 r29	r29 r29	r29	
I abcdfw	):*;+,=-/	78 r23 r23 r23	r23 r23	r23	
X abcdfw0123456789	):*;+,=-/	79 r24 r24 r24	r24 r24	r24	
Cabcdfw	begin	80		r17 r17 r17 r17 r17 r17	r17 r17
D abcdfw		81		s82	
Y integer	;	82		r16 r16 r16 r16 r16 r16	r16 r16
G a b c d f w write	end.				
B a b c d f w write	a b c d f w write				
W write	a b c d f w write				
R "value="	a b c d f w				
A abcdfw	a b c d f w write				
E abcdfw0123456789	);+-				
T abcdfw0123456789	)*;*-/				
F abcdfw0123456789	)*;+-/				
N 0123456789+-	)*;+-/				
Z 123456789	)*;+-/				
S +-	123456789				
H 123456789	a b c d f w ) * + , - / 0 1 2 3 4 5 6 7 8 9 : ; =				
L abcdfw	a b c d f w ) * + , - / 0 1 2 3 4 5 6 7 8 9 : ; =				