Eliza Schuh

FIRST table	
Nonterminal	**FIRST**
	{start}
	{{,fits,sandal,loafer,cowboy,wellington,A,a}
	{{,fits,sandal,loafer,cowboy,wellington,A,a}
	{0,1,2,3,4,5,6,7,8,9}
	{sandal,loafer,cowboy,wellington}
	{sandal,loafer,cowboy,wellington}
	{0,1,2,3,4,5,6,7,8,9}
	{0,1,2,3,4,5,6,7,8,9}
	{fits}
	{A,a}
	{{}
	{0,1,2,3,4,5,6,7,8,9}
	{A,a}
var_char	{_,A,a}
char	{A,a}
cap_char	{A}
lower_char	{a}
int_lit	{0,1,2,3,4,5,6,7,8,9}

```
<start> -> start ; <stmt> end ;
<stmt> -> <stmt> <stmt_type>
<stmt> -> <stmt_type>
<stmt_type> -> <as_stmt> ;
<stmt_type> -> <block_stmt> ;
<stmt_type> -> <bool_expr> ;
<stmt_type> -> <if_stmt>
<as_stmt> -> <type> <var_name> = <expr>
<type> -> sandal
<type> -> loafer
<type> -> cowboy
<type> -> wellington
<var> -> int_lit
<expr> -> <var>
<expr> -> <var> * <var>
<expr> -> <var> + <var>
<expr> -> <var> \ <var>
<expr> -> <var> - <var>
<if_stmt> -> fits ( <bool_expr> ) <block_stmt>
<bool_expr> -> <var_name> == int_lit
<block_stmt> -> { <stmt> }
<resolves_to_int> -> int_lit
<var_name> -> char var_char var_char var_char var_char var_char
<var_name> -> char var_char var_char var_char var_char var_char var_char
<var_name> -> char var_char var_char var_char var_char var_char var_char var_char

var_char -> _
var_char -> char

char -> cap_char
char -> lower_char

cap_char -> A

lower_char -> a

int_lit-> 0
int_lit-> 1
int_lit-> 2
int_lit-> 3
int_lit-> 4
int_lit-> 5
int_lit-> 6
int_lit-> 7
int_lit-> 8
int_lit-> 9
```

Input (tokens): start ; loafer A a a a a a a = 3 ; end ;

Maximum number of steps: 999

PARSE

Trace				Tree
Step	Stack	Input	Action	
1	0	start ; loafer A a a a a a a = 3 ; end ; $	s1	start
2	0 start 1	; loafer A a a a a a a = 3 ; end ; $	s2	
3	0 start 1 ; 2	loafer A a a a a a a = 3 ; end ; $	s14	
4	0 start 1 ; 2 loafer 14	A a a a a a a = 3 ; end ; $	r9	
5	0 start 1 ; 2	A a a a a a a = 3 ; end ; $	9	
6	0 start 1 ; 2 9	A a a a a a a = 3 ; end ; $	s20	
7	0 start 1 ; 2 9 A 20	a a a a a a = 3 ; end ; $	r29	
8	0 start 1 ; 2 9 cap_char	a a a a a a = 3 ; end ; $	18	
9	0 start 1 ; 2 9 cap_char 18	a a a a a a = 3 ; end ; $	r27	
10	0 start 1 ; 2 9 char	a a a a a a = 3 ; end ; $	28	
11	0 start 1 ; 2 9 char 28	a a a a a a = 3 ; end ; $	s21	
12	0 start 1 ; 2 9 char 28 a 21	a a a a a = 3 ; end ; $	r38	
13	0 start 1 ; 2 9 char 28 lower_char	a a a a a = 3 ; end ; $	19	
14	0 start 1 ; 2 9 char 28 lower_char 19	a a a a a = 3 ; end ; $	r28	
15	0 start 1 ; 2 9 char 28 char	a a a a a = 3 ; end ; $	40	
16	0 start 1 ; 2 9 char 28 char 40	a a a a a = 3 ; end ; $	r26	
17	0 start 1 ; 2 9 char 28 var_char	a a a a a = 3 ; end ; $	43	
18	0 start 1 ; 2 9 char 28 var_char 43	a a a a a = 3 ; end ; $	s21	
19	0 start 1 ; 2 9 char 28 var_char 43 a 21	a a a a = 3 ; end ; $	r38	
20	0 start 1 ; 2 9 char 28 var_char 43 lower_char	a a a a = 3 ; end ; $	19	
21	0 start 1 ; 2 9 char 28 var_char 43 lower_char 19	a a a a = 3 ; end ; $	r28	
22	0 start 1 ; 2 9 char 28 var_char 43 char	a a a a = 3 ; end ; $	40	
23	0 start 1 ; 2 9 char 28 var_char 43 char 40	a a a a = 3 ; end ; $	r26	
24	0 start 1 ; 2 9 char 28 var_char 43 var_char	a a a a = 3 ; end ; $	77	
25	0 start 1 ; 2 9 char 28 var_char 43 var_char 77	a a a a = 3 ; end ; $	s21	
26	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 a 21	a a a = 3 ; end ; $	r38	
27	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 lower_char	a a a = 3 ; end ; $	19	
28	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 lower_char 19	a a a = 3 ; end ; $	r28	
29	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 char	a a a = 3 ; end ; $	40	
30	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 char 40	a a a = 3 ; end ; $	r26	
31	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char	a a a = 3 ; end ; $	86	
32	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86	a a a = 3 ; end ; $	s21	
33	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 a 21	a a = 3 ; end ; $	r38	
34	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 lower_char	a a = 3 ; end ; $	19	
35	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 lower_char 19	a a = 3 ; end ; $	r28	
36	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 char	a a = 3 ; end ; $	40	
37	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 char 40	a a = 3 ; end ; $	r26	
38	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char	a a = 3 ; end ; $	107	
39	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107	a a = 3 ; end ; $	s124	
40	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 a 124	a = 3 ; end ; $	r38	
41	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 lower_char	a = 3 ; end ; $	122	
42	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 lower_char 122	a = 3 ; end ; $	r28	
43	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 char	a = 3 ; end ; $	120	
44	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 char 120	a = 3 ; end ; $	r26	
45	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 var_char	a = 3 ; end ; $	118	
46	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118	a = 3 ; end ; $	r22	
47	0 start 1 ; 2 9	a = 3 ; end ; $	27	
48	0 start 1 ; 2 9 27	a = 3 ; end ; $	s42	
49	0 start 1 ; 2 9 27 = 42	3 ; end ; $	s70	
50	0 start 1 ; 2 9 27 = 42 3 70	; end ; $	r34	
51	0 start 1 ; 2 9 27 = 42 int_lit	; end ; $	66	
52	0 start 1 ; 2 9 27 = 42 int_lit 66	; end ; $	r12	
53	0 start 1 ; 2 9 27 = 42	; end ; $	65	
54	0 start 1 ; 2 9 27 = 42 65	; end ; $	r13	
55	0 start 1 ; 2 9 27 = 42	; end ; $	64	
56	0 start 1 ; 2 9 27 = 42 64	; end ; $	r7	
57	0 start 1 ; 2	; end ; $	5	
58	0 start 1 ; 2 5	; end ; $	s24	
59	0 start 1 ; 2 5 ; 24	end ; $	r3	
60	0 start 1 ; 2	end ; $	4	
61	0 start 1 ; 2 4	end ; $	r2	
62	0 start 1 ; 2	end ; $	3	
63	0 start 1 ; 2 3	end ; $	s22	
64	0 start 1 ; 2 3 end 22	; $	s41	
65	0 start 1 ; 2 3 end 22 ; 41	$	acc	

This one fails because the variable name is not enough characters.

Input (tokens): `start ; loafer A a a a a = 3 ; end ;`

Maximum number of steps: `999`

PARSE

Trace				Tree
Step	Stack	Input	Action	
1	0	start ; loafer A a a a a = 3 ; end ; $	s1	
2	0 start 1	; loafer A a a a a = 3 ; end ; $	s2	
3	0 start 1 ; 2	loafer A a a a a = 3 ; end ; $	s14	
4	0 start 1 ; 2 loafer 14	A a a a a = 3 ; end ; $	r_9	
5	0 start 1 ; 2	A a a a a = 3 ; end ; $	9	
6	0 start 1 ; 2 9	A a a a a = 3 ; end ; $	s20	
7	0 start 1 ; 2 9 A 20	a a a a = 3 ; end ; $	r_{29}	
8	0 start 1 ; 2 9 cap_char	a a a a = 3 ; end ; $	18	
9	0 start 1 ; 2 9 cap_char 18	a a a a = 3 ; end ; $	r_{27}	
10	0 start 1 ; 2 9 char	a a a a = 3 ; end ; $	28	
11	0 start 1 ; 2 9 char 28	a a a a = 3 ; end ; $	s21	
12	0 start 1 ; 2 9 char 28 a 21	a a a = 3 ; end ; $	r_{30}	
13	0 start 1 ; 2 9 char 28 lower_char	a a a = 3 ; end ; $	19	
14	0 start 1 ; 2 9 char 28 lower_char 19	a a a = 3 ; end ; $	r_{28}	
15	0 start 1 ; 2 9 char 28 char	a a a = 3 ; end ; $	40	
16	0 start 1 ; 2 9 char 28 char 40	a a a = 3 ; end ; $	r_{26}	
17	0 start 1 ; 2 9 char 28 var_char	a a a = 3 ; end ; $	43	
18	0 start 1 ; 2 9 char 28 var_char 43	a a a = 3 ; end ; $	s21	
19	0 start 1 ; 2 9 char 28 var_char 43 a 21	a a = 3 ; end ; $	r_{30}	
20	0 start 1 ; 2 9 char 28 var_char 43 lower_char	a a = 3 ; end ; $	19	
21	0 start 1 ; 2 9 char 28 var_char 43 lower_char 19	a a = 3 ; end ; $	r_{28}	
22	0 start 1 ; 2 9 char 28 var_char 43 char	a a = 3 ; end ; $	40	
23	0 start 1 ; 2 9 char 28 var_char 43 char 40	a a = 3 ; end ; $	r_{26}	
24	0 start 1 ; 2 9 char 28 var_char 43 var_char	a a = 3 ; end ; $	77	
25	0 start 1 ; 2 9 char 28 var_char 43 var_char 77	a a = 3 ; end ; $	s21	
26	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 a 21	a = 3 ; end ; $	r_{30}	
27	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 lower_char	a = 3 ; end ; $	19	
28	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 lower_char 19	a = 3 ; end ; $	r_{28}	
29	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 char	a = 3 ; end ; $	40	
30	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 char 40	a = 3 ; end ; $	r_{26}	
31	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char	a = 3 ; end ; $	86	
32	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86	a = 3 ; end ; $	s21	
33	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 a 21	= 3 ; end ; $		

Input (tokens): `start ; loafer A a a a a a a = 3 ; fits ( A a a a a a a == 3 ) { sandal A a a a a a a a a = 4 ; } end ;`

Maximum number of steps: `999`

PARSE

Trace

Step	Stack	Input	Action	Tree
1	0	start ; loafer A a a a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s1	start
2	0 start 1	; loafer A a a a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s2	
3	0 start 1 ; 2	loafer A a a a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s14	
4	0 start 1 ; 2 loafer 14	A a a a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r5	
5	0 start 1 ; 2	A a a a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	9	
6	0 start 1 ; 2 9	A a a a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s20	
7	0 start 1 ; 2 9 A 20	a a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r29	
8	0 start 1 ; 2 9 cap_char	a a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	18	
9	0 start 1 ; 2 9 cap_char 18	a a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r27	
10	0 start 1 ; 2 9 char	a a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	28	
11	0 start 1 ; 2 9 char 28	a a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s21	
12	0 start 1 ; 2 9 char 28 a 21	a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r30	
13	0 start 1 ; 2 9 char 28 lower_char	a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	19	
14	0 start 1 ; 2 9 char 28 lower_char 19	a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r28	
15	0 start 1 ; 2 9 char 28 char	a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	40	
16	0 start 1 ; 2 9 char 28 char 40	a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r26	
17	0 start 1 ; 2 9 char 28 var_char	a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	43	
18	0 start 1 ; 2 9 char 28 var_char 43	a a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s21	
19	0 start 1 ; 2 9 char 28 var_char 43 a 21	a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r30	
20	0 start 1 ; 2 9 char 28 var_char 43 lower_char	a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	19	
21	0 start 1 ; 2 9 char 28 var_char 43 lower_char 19	a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r28	
22	0 start 1 ; 2 9 char 28 var_char 43 char	a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	40	
23	0 start 1 ; 2 9 char 28 var_char 43 char 40	a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r26	
24	0 start 1 ; 2 9 char 28 var_char 43 var_char	a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	77	
25	0 start 1 ; 2 9 char 28 var_char 43 var_char 77	a a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s21	
26	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 a 21	a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r30	
27	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 lower_char	a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	19	
28	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 lower_char 19	a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r28	
29	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 char	a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	40	
30	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 char 40	a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r26	
31	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char	a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	86	
32	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86	a a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s21	
33	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 a 21	a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r30	
34	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 lower_char	a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	19	
35	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 lower_char 19	a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r28	
36	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 char	a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	40	
37	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 char 40	a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r26	
38	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char	a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	107	
39	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107	a = 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s124	
40	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 a 124	= 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r30	
41	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 lower_char	= 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	122	
42	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 lower_char 122	= 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r28	
43	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 char	= 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	120	
44	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 char 120	= 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r26	
45	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 var_char	= 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	118	
46	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118	= 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r22	
47	0 start 1 ; 2 9	= 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	27	
48	0 start 1 ; 2 9 27	= 3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s42	
49	0 start 1 ; 2 9 27 = 42	3 ; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s70	
50	0 start 1 ; 2 9 27 = 42 3 70	; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r34	
51	0 start 1 ; 2 9 27 = 42 int_lit	; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	66	
52	0 start 1 ; 2 9 27 = 42 int_lit 66	; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r22	
53	0 start 1 ; 2 9 27 = 42	; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	65	
54	0 start 1 ; 2 9 27 = 42 65	; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r13	
55	0 start 1 ; 2 9 27 = 42	; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	64	
56	0 start 1 ; 2 9 27 = 42 64	; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r7	
57	0 start 1 ; 2	; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	5	
58	0 start 1 ; 2 5	; fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	s24	
59	0 start 1 ; 2 5 ; 24	fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	r3	
60	0 start 1 ; 2	fits (A a a a a a a == 3) { sandal A a a a a a a a a = 4 ; } end ; $	4	

61	0 start 1 ; 2 4	fits (A a a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{2}$
62	0 start 1 ; 2	fits (A a a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	3
63	0 start 1 ; 2 3	fits (A a a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	s12
64	0 start 1 ; 2 3 fits 12	(A a a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	s37
65	0 start 1 ; 2 3 fits 12 (37	A a a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	s20
66	0 start 1 ; 2 3 fits 12 (37 A 20	a a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{29}$
67	0 start 1 ; 2 3 fits 12 (37 cap_char	a a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	18
68	0 start 1 ; 2 3 fits 12 (37 cap_char 18	a a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{27}$
69	0 start 1 ; 2 3 fits 12 (37 char	a a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	17
70	0 start 1 ; 2 3 fits 12 (37 char 17	a a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	s21
71	0 start 1 ; 2 3 fits 12 (37 char 17 a 21	a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{30}$
72	0 start 1 ; 2 3 fits 12 (37 char 17 lower_char	a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	19
73	0 start 1 ; 2 3 fits 12 (37 char 17 lower_char 19	a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{28}$
74	0 start 1 ; 2 3 fits 12 (37 char 17 char	a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	40
75	0 start 1 ; 2 3 fits 12 (37 char 17 char 40	a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{26}$
76	0 start 1 ; 2 3 fits 12 (37 char 17 var_char	a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	38
77	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38	a a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	s21
78	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 a 21	a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{30}$
79	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 lower_char	a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	19
80	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 lower_char 19	a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{28}$
81	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 char	a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	40
82	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 char 40	a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{26}$
83	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char	a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	63
84	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63	a a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	s21
85	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 a 21	a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{30}$
86	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 lower_char	a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	19
87	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 lower_char 19	a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{28}$
88	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 char	a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	40
89	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 char 40	a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{26}$
90	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char	a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	81
91	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81	a a == 3) { sandal A a a a a a a a = 4 ; } end ; $	s21
92	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 a 21	a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{30}$
93	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 lower_char	a == 3) { sandal A a a a a a a a = 4 ; } end ; $	19
94	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 lower_char 19	a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{28}$
95	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 char	a == 3) { sandal A a a a a a a a = 4 ; } end ; $	40
96	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 char 40	a == 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{26}$
97	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 var_char	a == 3) { sandal A a a a a a a a = 4 ; } end ; $	101
98	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 var_char 101	a == 3) { sandal A a a a a a a a = 4 ; } end ; $	s117
99	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 var_char 101 a 117	== 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{30}$
100	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 var_char 101 lower_char	== 3) { sandal A a a a a a a a = 4 ; } end ; $	115
101	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 var_char 101 lower_char 115	== 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{28}$
102	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 var_char 101 char	== 3) { sandal A a a a a a a a = 4 ; } end ; $	113
103	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 var_char 101 char 113	== 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{26}$
104	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 var_char 101 var_char	== 3) { sandal A a a a a a a a = 4 ; } end ; $	111
105	0 start 1 ; 2 3 fits 12 (37 char 17 var_char 38 var_char 63 var_char 81 var_char 101 var_char 111	== 3) { sandal A a a a a a a a = 4 ; } end ; $	$_{22}$
106	0 start 1 ; 2 3 fits 12 (37	== 3) { sandal A a a a a a a a = 4 ; } end ; $	62
107	0 start 1 ; 2 3 fits 12 (37 62	== 3) { sandal A a a a a a a a = 4 ; } end ; $	s80
108	0 start 1 ; 2 3 fits 12 (37 62 == 80	3) { sandal A a a a a a a a = 4 ; } end ; $	s94
109	0 start 1 ; 2 3 fits 12 (37 62 == 80 3 94	) { sandal A a a a a a a a = 4 ; } end ; $	$_{34}$
110	0 start 1 ; 2 3 fits 12 (37 62 == 80 int_lit	) { sandal A a a a a a a a = 4 ; } end ; $	90
111	0 start 1 ; 2 3 fits 12 (37 62 == 80 int_lit 90	) { sandal A a a a a a a a = 4 ; } end ; $	$_{19}$
112	0 start 1 ; 2 3 fits 12 (37	) { sandal A a a a a a a a = 4 ; } end ; $	61
113	0 start 1 ; 2 3 fits 12 (37 61	) { sandal A a a a a a a a = 4 ; } end ; $	s79
114	0 start 1 ; 2 3 fits 12 (37 61) 79	{ sandal A a a a a a a a = 4 ; } end ; $	s89
115	0 start 1 ; 2 3 fits 12 (37 61) 79 (89	sandal A a a a a a a a = 4 ; } end ; $	s13
116	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 sandal 13	A a a a a a a a = 4 ; } end ; $	$_{8}$
117	0 start 1 ; 2 3 fits 12 (37 61) 79 (89	A a a a a a a a = 4 ; } end ; $	9
118	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9	A a a a a a a a = 4 ; } end ; $	s20
119	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9 A 20	a a a a a a a = 4 ; } end ; $	$_{29}$
120	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9 cap_char	a a a a a a = 4 ; } end ; $	18
121	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9 cap_char 18	a a a a a a = 4 ; } end ; $	$_{27}$
122	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9 char	a a a a a a = 4 ; } end ; $	28
123	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9 char 28	a a a a a a = 4 ; } end ; $	s21
124	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9 char 28 a 21	a a a a a = 4 ; } end ; $	$_{30}$
125	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9 char 28 lower_char	a a a a a = 4 ; } end ; $	19
126	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9 char 28 lower_char 19	a a a a a = 4 ; } end ; $	$_{28}$
127	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9 char 28 char	a a a a a = 4 ; } end ; $	40
128	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9 char 28 char 40	a a a a a = 4 ; } end ; $	$_{26}$
129	0 start 1 ; 2 3 fits 12 (37 61) 79 (89 9 char 28 var_char	a a a a a = 4 ; } end ; $	43

132	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 lower_char	a a a a a = 4 ;) end ; $	19
133	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 lower_char 19	a a a a a = 4 ;) end ; $	F_{28}
134	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 char	a a a a a = 4 ;) end ; $	40
135	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 char 40	a a a a a = 4 ;) end ; $	F_{26}
136	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char	a a a a a = 4 ;) end ; $	77
137	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77	a a a a a = 4 ;) end ; $	a21
138	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 a 21	a a a a = 4 ;) end ; $	F_{30}
139	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 lower_char	a a a a = 4 ;) end ; $	19
140	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 lower_char 19	a a a a = 4 ;) end ; $	F_{28}
141	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 char	a a a a = 4 ;) end ; $	40
142	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 char 40	a a a a = 4 ;) end ; $	F_{26}
143	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char	a a a a = 4 ;) end ; $	86
144	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86	a a a a = 4 ;) end ; $	a21
145	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 a 21	a a a = 4 ;) end ; $	F_{30}
146	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 lower_char	a a a = 4 ;) end ; $	19
147	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 lower_char 19	a a a = 4 ;) end ; $	F_{28}
148	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 char	a a a = 4 ;) end ; $	40
149	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 char 40	a a a = 4 ;) end ; $	F_{26}
150	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char	a a a = 4 ;) end ; $	107
151	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107	a a a = 4 ;) end ; $	a124
152	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 a 124	a a = 4 ;) end ; $	F_{30}
153	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 lower_char	a a = 4 ;) end ; $	122
154	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 lower_char 122	a a = 4 ;) end ; $	F_{28}
155	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 char	a a = 4 ;) end ; $	120
156	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 char 120	a a = 4 ;) end ; $	F_{26}
157	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char	a a = 4 ;) end ; $	118
158	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118	a a = 4 ;) end ; $	a124
159	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 a 124	a = 4 ;) end ; $	F_{30}
160	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 lower_char	a = 4 ;) end ; $	122
161	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 lower_char 122	a = 4 ;) end ; $	F_{28}
162	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 char	a = 4 ;) end ; $	120
163	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 char 120	a = 4 ;) end ; $	F_{26}
164	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 var_char	a = 4 ;) end ; $	128
165	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 var_char 128	a = 4 ;) end ; $	a143
166	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 var_char 128 a 143	= 4 ;) end ; $	F_{30}
167	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 var_char 128 lower_char	= 4 ;) end ; $	141
168	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 var_char 128 lower_char 141	= 4 ;) end ; $	F_{28}
169	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 var_char 128 char	= 4 ;) end ; $	139
170	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 var_char 128 char 139	= 4 ;) end ; $	F_{26}
171	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 var_char 128 var_char	= 4 ;) end ; $	137
172	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 char 20 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118 var_char 128 var_char 137	= 4 ;) end ; $	F_{24}
173	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9	= 4 ;) end ; $	27
174	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 27	= 4 ;) end ; $	a42
175	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 27 = 42	4 ;) end ; $	a71
176	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 27 = 42 4 71	;) end ; $	F_{35}
177	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 27 = 42 int_lit	;) end ; $	66
178	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 27 = 42 int_lit 66	;) end ; $	F_{32}
179	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 27 = 42	;) end ; $	65
180	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 27 = 42 65	;) end ; $	F_{33}
181	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 27 = 42	;) end ; $	64
182	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 9 27 = 42 64	;) end ; $	F_7
183	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89	;) end ; $	31
184	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 31	;) end ; $	a46
185	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 31 ; 46	) end ; $	F_1
186	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89	) end ; $	30
187	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 30	) end ; $	F_1
188	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89	) end ; $	110
189	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 110	) end ; $	a126
190	0 start 1 ; 2 3 fits 12 (37 61) 79 { 89 110) 126	end ; $	F_{20}
191	0 start 1 ; 2 3 fits 12 (37 61) 79	end ; $	88
192	0 start 1 ; 2 3 fits 12 (37 61) 79 88	end ; $	F_{18}
193	0 start 1 ; 2 3	end ; $	8
194	0 start 1 ; 2 3 8	end ; $	F_6
195	0 start 1 ; 2 3	end ; $	23
196	0 start 1 ; 2 3 23	end ; $	F_5
197	0 start 1 ; 2	end ; $	3
198	0 start 1 ; 2 3	end ; $	a22
199	0 start 1 ; 2 3 end 22	; $	a41
200	0 start 1 ; 2 3 end 22 ; 41	$	acc

Input (tokens): `start ; loafer A a a a a a a = 3 ;`

Maximum number of steps: `999`

PARSE

Trace				Tree
Step	Stack	Input	Action	
1	0	start ; loafer A a a a a a a = 3 ; $	s1	
2	0 start 1	; loafer A a a a a a a = 3 ; $	s2	
3	0 start 1 ; 2	loafer A a a a a a a = 3 ; $	s14	
4	0 start 1 ; 2 loafer 14	A a a a a a a = 3 ; $	r_{9}	
5	0 start 1 ; 2	A a a a a a a = 3 ; $	9	
6	0 start 1 ; 2 9	A a a a a a a = 3 ; $	s20	
7	0 start 1 ; 2 9 A 20	a a a a a a = 3 ; $	r_{29}	
8	0 start 1 ; 2 9 cap_char	a a a a a a = 3 ; $	18	
9	0 start 1 ; 2 9 cap_char 18	a a a a a a = 3 ; $	r_{27}	
10	0 start 1 ; 2 9 char	a a a a a a = 3 ; $	28	
11	0 start 1 ; 2 9 char 28	a a a a a a = 3 ; $	s21	
12	0 start 1 ; 2 9 char 28 a 21	a a a a = 3 ; $	r_{30}	
13	0 start 1 ; 2 9 char 28 lower_char	a a a a = 3 ; $	19	
14	0 start 1 ; 2 9 char 28 lower_char 19	a a a a = 3 ; $	r_{28}	
15	0 start 1 ; 2 9 char 28 char	a a a a = 3 ; $	40	
16	0 start 1 ; 2 9 char 28 char 40	a a a a = 3 ; $	r_{26}	
17	0 start 1 ; 2 9 char 28 var_char	a a a a = 3 ; $	43	
18	0 start 1 ; 2 9 char 28 var_char 43	a a a a = 3 ; $	s21	
19	0 start 1 ; 2 9 char 28 var_char 43 a 21	a a a = 3 ; $	r_{30}	
20	0 start 1 ; 2 9 char 28 var_char 43 lower_char	a a a = 3 ; $	19	
21	0 start 1 ; 2 9 char 28 var_char 43 lower_char 19	a a a = 3 ; $	r_{28}	
22	0 start 1 ; 2 9 char 28 var_char 43 char	a a a = 3 ; $	40	
23	0 start 1 ; 2 9 char 28 var_char 43 char 40	a a a = 3 ; $	r_{26}	
24	0 start 1 ; 2 9 char 28 var_char 43 var_char	a a a = 3 ; $	77	
25	0 start 1 ; 2 9 char 28 var_char 43 var_char 77	a a a = 3 ; $	s21	
26	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 a 21	a a = 3 ; $	r_{30}	
27	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 lower_char	a a = 3 ; $	19	
28	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 lower_char 19	a a = 3 ; $	r_{28}	
29	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 char	a a = 3 ; $	40	
30	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 char 40	a a = 3 ; $	r_{26}	
31	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char	a a = 3 ; $	86	
32	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86	a a = 3 ; $	s21	
33	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 a 21	a = 3 ; $	r_{30}	
34	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 lower_char	a = 3 ; $	19	
35	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 lower_char 19	a = 3 ; $	r_{28}	
36	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 char	a = 3 ; $	40	
37	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 char 40	a = 3 ; $	r_{26}	
38	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char	a = 3 ; $	107	
39	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107	a = 3 ; $	s124	
40	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 a 124	= 3 ; $	r_{30}	
41	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 lower_char	= 3 ; $	122	
42	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 lower_char 122	= 3 ; $	r_{28}	
43	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 char	= 3 ; $	120	
44	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 char 120	= 3 ; $	r_{26}	
45	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 var_char	= 3 ; $	118	
46	0 start 1 ; 2 9 char 28 var_char 43 var_char 77 var_char 86 var_char 107 var_char 118	= 3 ; $	r_{22}	
47	0 start 1 ; 2 9	= 3 ; $	27	
48	0 start 1 ; 2 9 27	= 3 ; $	s42	
49	0 start 1 ; 2 9 27 = 42	3 ; $	s70	
50	0 start 1 ; 2 9 27 = 42 3 70	; $	r_{34}	
51	0 start 1 ; 2 9 27 = 42 int_lit	; $	66	
52	0 start 1 ; 2 9 27 = 42 int_lit 66	; $	r_{12}	
53	0 start 1 ; 2 9 27 = 42	; $	65	
54	0 start 1 ; 2 9 27 = 42 65	; $	r_{13}	
55	0 start 1 ; 2 9 27 = 42	; $	64	
56	0 start 1 ; 2 9 27 = 42 64	; $	r_{7}	
57	0 start 1 ; 2	; $	5	
58	0 start 1 ; 2 5	; $	s24	
59	0 start 1 ; 2 5 ; 24	$		

This one fails due to not end statement