```
1
          Reserved Words Table
 2
     and
     end
 4
     for
     goto
 6
     if
     input
 8
     next
 9
     or
10
     print
11
     read
12
     rem
13
     step
14
     then
15
     to
16
17
18
            Progl.bas Table
19
20
     10 rem
     12 input x1, y
21
     13 if x1<y then goto 15
22
     14 zee = x1-y
23
     11 goto 16
24
    15 zee = x1+2*y
25
    16 print x1, y, zee
26
     17 for i = 1 to 16 step 5
27
28
     18 print i
    19 next i
29
     20 input st%
30
     21 print "$", st%
31
     22 input x
32
     23 if y \ge x1 then x = y^3
33
34
     24 print x1,#
35
     25 end
36
37
38
39
                                            Action Table
40
                  Letter
                           Digit
                                    Period
                                            Delimiter Blank
                                                                 Pod
                                                                          EOLN
                                                                                    Illegal
                              1
                     1
                                        5
                                                 1
                                                          6
                                                                   5
                                                                            6
                                                                                      7
     NewToken
41
                              1
                     1
                                        4
                                                 8
                                                          2
                                                                   10
                                                                            2
42
     ReservedWord
                                                                                      11
43
     Variable
                     1
                              1
                                                 9
                                                          3
                                                                   12
                                                                                      13
```

C:\Users\brynl\Documents\Semester2\ComputerScience2\FINAL PROJECT\outputfile.txt Page 2 of 4 5/2/2018 1:51:57 PM 9 1 1 9 3 3 44 Integer 4 13 45 Real 9 1 4 9 3 4 3 13 Delimiter 9 9 4 12 3 4 3 13 46 47 48 49 50 Explanations Table 51 1 Load character and continue 2 Compare with table of reserved words, print token, reinitialize token 52 53 3 Print token, reinitialize token 4 Print token, write "Improper usage", print character, reinitialize token 54 55 5 Write "Improper usage", print character 56 6 Continue 57 7 Write "Illegal character", print character 58 8 Compare with table of reserved words, print token, reinitialize token, load char 59 9 Print token, reinitialize token, load character 60 10 Load character, change state to variable, print token, reinitialize token 11 Compare with table of reserved words, print token, write "Illegal character", print char 61 62 12 Load character, print token, reinitialize token 13 Print Token, write "Illegal Character", print character, reinitialize token 63 64 65 66 67 68 State Table 69 Letter |Digit |Period |Delimiter |Blank | Pod |EOLN |Illegal 70 |NewToken NewToken NewToken 71 NewToken |ReservedWord|Integer |Delimiter NewToken |NewToken 72 ReservedWord | ReservedWord | Variable |NewToken |Delimiter |NewToken |NewToken |NewToken |NewToken 73 Variable |Variable |Variable |NewToken |Delimiter |NewToken |NewToken |NewToken NewToken Integer 74 |ReservedWord|Integer |Real |Delimiter |NewToken |NewToken |NewToken |NewToken 75 Real |ReservedWord|Real |NewToken |Not Valid |NewToken |NewToken |NewToken NewToken 76 |ReservedWord|Integer |NewToken |NewToken Delimiter |NewToken |NewToken lNewToken |NewToken 77 78 79 SCANNER RESULTS: 80 Error? TOKEN TOKEN-TYPE 81 10 Integer 82 rem ReservedWord 83 12 Integer 84 input ReservedWord 85 x1Variable 86 Delimiter

87	У	Variable
88	13	Integer
89	if	ReservedWord
90	x1	Variable
91	<	Delimiter
92	У	Variable
93	then	ReservedWord
94	goto	ReservedWord
95	15	Integer
96	14	Integer
97	zee	Variable
98	=	Delimiter
99	x1	Variable
100	_	Delimiter
101	У	Variable
102	11	Integer
103	goto	ReservedWord
104	16	Integer
105	15	Integer
106	zee	Variable
107	=	Delimiter
108	x1	Variable
109	+	Delimiter
110	2	Integer
111	*	Delimiter
112	У	Variable
113	16	Integer
114	print	ReservedWord
115	x1	Variable
116	,	Delimiter
117	У	Variable
118	,	Delimiter
119	zee	Variable
120	17	Integer
121	for	ReservedWord
122	i	Variable
123	=	Delimiter
124	1	Integer
125	to	ReservedWord
126	16	Integer
127	step	ReservedWord
128	5	Integer
129	18	Integer

130	print	ReservedWord
131	i	Variable
132	19	Integer
133	next	ReservedWord
134	i	Variable
135	20	Integer
136	input	ReservedWord
137	st%	Variable
138	21	Integer
139	print	ReservedWord
140	"	Delimiter
141	Improper Usage: \$	
142	",	Delimiter
143	st%	Variable
144	22	Integer
145	input	ReservedWord
146	x	Variable
147	23	Integer
148	if	ReservedWord
149	У	Variable
150	>=	Delimiter
151	x1	Variable
152	then	ReservedWord
153	x	Variable
154	=	Delimiter
155	У	Variable
156	^	Delimiter
157	3	Integer
158	24	Integer
159	print	ReservedWord
160	x1	Variable
161	,	Delimiter
162	Illegal Character: #	
163	25	Integer
164	end	ReservedWord
165		