

```

1 Input File:
2 Enter the file name with.txt extension
3 lex1.txt
4
5 Input file "lex1.txt"
6
7 #include <stdio.h>
8 void f(void);
9 int main(void){
10     int i;
11     for(i=red; i<blue; i++)
12         f();
13     return ;
14 }
15 void fruit(void)
16 {
17     const short int j = 25a;
18     int a25;
19     signed auto float variable=abc==def;
20     if j!=key && j>=ghj
21         printf("%d",j);
22     j++;
23     j=j*(abc!=def&&q);
24 }

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Output:

#### Symbol Table

ID	TOKEN NAME	TOKEN TYPE	OCCURENCES	LINE NUMBERS (POSITION NUMBER)
0	auto	KEYWORD	1	13 (3 ),
4	float	KEYWORD	1	13 (5 ),
7	for	KEYWORD	1	5 (1 ),
12	const	KEYWORD	1	11 (1 ),
13	if	KEYWORD	1	14 (1 ),
16	int	KEYWORD	4	3 (1 ), 4 (1 ), 11 (5 ), 12 (1 ),
23	void	KEYWORD	3	2 (1 5 ), 3 (5 ), 9 (1 5 ),
24	return	KEYWORD	1	7 (1 ),
28	short	KEYWORD	1	11 (3 ),
31	signed	KEYWORD	1	13 (1 ),
34	*	ARITHMETIC OPERATOR	1	17 (8 ),
36	%	ARITHMETIC OPERATOR	1	15 (11 ),
37	<	RELATIONAL OPERATOR	1	5 (9 ),

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56
57      39          >=      RELATIONAL OPERATOR      1      14 (10 ),
58
59      41          ==      RELATIONAL OPERATOR      1      13 (10 ),
60
61      42          !=      RELATIONAL OPERATOR      2      14 (4 ),17 (11 ),
62
63      43          &&      CONDITIONAL OPERATOR      2      14 (7 ),17 (13 ),
64
65      46          =      ASSIGNMENT OPERATOR      4      5 (4 ),11 (9
),13 (8 ),17 (6 ),
66
67      47          ++      INC-DEC OPERATOR      2      5 (14 ),16 (6 ),
68
69      49          {      PUNCTUATION SYMBOL      2      3 (7 ),10 (1 ),
70
71      50          ,      PUNCTUATION SYMBOL      1      15 (14 ),
72
73      51          ;      PUNCTUATION SYMBOL      11      2 (7 ),4 (4
),5 (6 11 ),6 (12 ),7 (3 ),11 (12 ),12 (4 ),13 (12 ),15 (17 ),16 (7 ),17 (16 ),
74
75      52          }      PUNCTUATION SYMBOL      2      8 (1 ),18 (1 ),
76
77      53          PUNCTUATION SYMBOL      15      1 (3 ),2 (2
),3 (2 ),4 (2 ),5 (7 12 ),6 (1 2 3 4 5 6 7 8 ),7 (2 ),9 (2 7 ),11 (2 4 6 8 10
),12 (2 ),13 (2 4 6 ),14 (2 6 8 ),15 (1 2 3 4 5 6 7 ),16 (1 2 3 4 8 ),17 (1 2 3
4 ),
78
79      54          #      INVALID      1      1 (1 ),
80
81      55          include      IDENTIFIER      1      1 (2 ),
82
83      56          stdio      IDENTIFIER      1      1 (4 ),
84
85      57          .      INVALID      1      1 (5 ),
86
87      58          h      IDENTIFIER      1      1 (6 ),
88
89      59          INVALID      17      1 (7 ),2 (8 ),3 (8 ),4 (5 ),5 (16 ),6
(13 ),7 (4 ),8 (2 ),9 (8 ),10 (2 ),11 (13 ),12 (5 ),13 (13 ),14 (12 ),15 (18
),16 (9 ),17 (17 ),
90
91      60          f      IDENTIFIER      2      2 (3 ),6 (9 ),
92
93      61          (      INVALID      7      2 (4 ),3 (4
),5 (2 ),6 (10 ),9 (4 ),15 (9 ),17 (9 ),
94
95      62          )      INVALID      7      2 (6 ),3 (6
),5 (15 ),6 (11 ),9 (6 ),15 (16 ),17 (15 ),
96
97      63          main      IDENTIFIER      1      3 (3 ),
98
99      64          i      IDENTIFIER      2      4 (3 ),5 (3 8
13 ),
100
101      65          red      IDENTIFIER      1      5 (5 ),
102

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103	66	blue	IDENTIFIER	1	5 (10 ),
104					
105	67	fruit	IDENTIFIER	1	9 (3 ),
106					
107	68	j	IDENTIFIER	5	11 (7 ),14 (3 )
	9 ),15 (15 ),16 (5 ),17 (5 7 ),				
108					
109	69	25a	INVALID	1	11 (11 ),
110					
111	70	a25	IDENTIFIER	1	12 (3 ),
112					
113	71	variable	IDENTIFIER	1	13 (7 ),
114					
115	72	abc	IDENTIFIER	2	13 (9 ),17 (10 ),
116					
117	73	def	IDENTIFIER	2	13 (11 ),17
	(12 ),				
118					
119	74	key	IDENTIFIER	1	14 (5 ),
120					
121	75	ghj	IDENTIFIER	1	14 (11 ),
122					
123	76	printf	IDENTIFIER	1	15 (8 ),
124					
125	77	"	INVALID	1	15 (10 13 ),
126					
127	78	d	IDENTIFIER	1	15 (12 ),
128					
129	79	q	IDENTIFIER	1	17 (14 ),
130					