

Token-Lexeme table을 line number와 함께 표시한다. Error에 해당할 경우 lexeme도 함께 표시한다. 그러나 주석 내용은 표시하지 않는다.

line number	token	lexeme
3	IF	if
6	ERROR	/*

① 예시 1

```
test1.c (~/compiler/C-) - VIM
1 /* binary_search program */
2 int arr[11111];
3 int binarySearch(int x){
4     int left=0, right=11111, mid;
5     while(left<=right){
6         mid = (left+right)/2;
7         if(mid==x) return mid;
8         else if(mid<x) left=mid+1;
9         else right=mid-1;
10    }
11    return -1;
12 }
13
14 int main(){
15     int i, goal, res;
16     for(i=0;i<11111;i++){
17         arr[i] = i;
18     }
19     goal=100;
20     res = binarySearch(goal);
21     return 0;
22 }
23
1,1
```

```
cs20091669@cspro2: ~/compiler/C-
cs20091669@cspro2:~/compiler/C-$ ./20091669 test1.c
line number      token           lexeme
-----
2                INT            int
2                ID             arr
2                [             [
2                NUM           11111
2                ]             ]
2                ;             ;
3                INT            int
3                ID            binarySearch
3                (             (
3                INT            int
3                ID             x
3                )             )
3                {             {
4                INT            int
4                ID            left
4                =             =
4                NUM           0
4                ,             ,
4                ID            right
4                =             =
4                NUM           11111
4                ,             ,
4                ID            mid
4                ;             ;
5                WHILE           while
5                (             (
5                ID            left
5                <=           <=
5                ID            right
5                )             )
5                {             {
6                ID            mid
6                =             =
6                (             (
6                ID            left
6                +             +
6                ID            right
6                )             )
6                /             /
6                NUM           2
6                ;             ;
7                IF             if
7                (             (
7                ID            mid
7                ==          ==
7                ID            x
7                )             )
7                RETURN        return
7                ID            mid
7                ;             ;
8                ELSE           else
8                IF             if
8                (             (
8                ID            mid
8                <           <
8                ID            x
8                )             )
8                ID            left
```

```
cs20091669@cspro2: ~/compiler/C-
8      =      =
8      ID      mid
8      +      +
8      NUM      1
8      ;      ;
9      ELSE      else
9      ID      right
9      =      =
9      ID      mid
9      -      -
9      NUM      1
9      ;      ;
10     }      }
11     RETURN      return
11     -      -
11     NUM      1
11     ;      ;
12     }      }
14     INT      int
14     ID      main
14     (      (
14     )      )
14     {      {
15     INT      int
15     ID      i
15     ,      ,
15     ID      goal
15     ,      ,
15     ID      res
15     ;      ;
16     ID      for
16     (      (
16     ID      i
16     =      =
16     NUM      0
16     ;      ;
16     ID      i
16     <      <
16     NUM      11111
16     ;      ;
16     ID      i
16     +      +
16     +      +
16     )      )
16     {      {
17     ID      arr
17     [      [
17     ID      i
17     ]      ]
17     =      =
17     ID      i
17     ;      ;
18     }      }
19     ID      goal
19     =      =
19     NUM      100
19     ;      ;
20     ID      res
20     =      =
20     ID      binarySearch
20     (      (
```

```
cs20091669@cspro2: ~/compiler/C-
20          ID          goal
20          )           )
20          ;           ;
21          RETURN      return
21          NUM         0
21          ;           ;
22          }           }
24          EOF
cs20091669@cspro2:~/compiler/C-$ ./20091669 test1.c |grep error
cs20091669@cspro2:~/compiler/C-$
```

② 예시 2

```
1 /* comment /* asdf *****/
2
3 /* com**
4
5 /
6
7
8 ment*/
9
10 /* comerrorb *
10 /* comerrorb /*
10 /* comerrorb
11          ERROR      Comment Error
11          ENDFILE    EOF
```