

Test Input 1

with std.io;

with gnu.io;

@ @

A : Integer;

B : float = 3.42;

function foo(X:Integer;) return integer

{

--Function Code Goes in here

get(X);

X=X+2;

return X;

}

@ @

A=foo(A);

put(A);

put(B);

Output 1

```
1  with  Keyword
1  std.io  Keyword
1  ;  Delimiter
2  with  Keyword
2  gnu.io  Keyword
2  ;  Delimiter
4  @@  Section_Separator
6  A  Identifier
6  :  Delimiter
6  Integer  Keyword
6  ;  Delimiter
7  B  Identifier
7  :  Delimiter
7  float  Keyword
7  =  Operator
7  3.42  Floating_Point_Literal
7  ;  Delimiter
9  function  Keyword
9  foo  Identifier
9  (  Delimiter
9  X  Identifier
9  :  Delimiter
9  Integer  Keyword
9  ;  Delimiter
9  )  Delimiter
9  return  Keyword
9  integer  Keyword
10 {  Delimiter
12 get  Keyword
12 (  Delimiter
12 X  Identifier
12 )  Delimiter
12 ;  Delimiter
```

13 X Identifier
13 = Operator
13 X Identifier
13 + Operator
13 2 Integer_Literal
13 ; Delimiter
15 return Keyword
15 X Identifier
15 ; Delimiter
16 } Delimiter
18 @@ Section_Separator
20 A Identifier
20 = Operator
20 foo Identifier
20 (Delimiter
20 A Identifier
20) Delimiter
20 ; Delimiter
21 put Keyword
21 (Delimiter
21 A Identifier
21) Delimiter
21 ; Delimiter
22 put Keyword
22 (Delimiter
22 B Identifier
22) Delimiter
22 ; Delimiter

Test Input 2

With std.io;

wITh gnu.io;

@ @

A : InteGer;

B : aRRay[3] of fLoAt;

function foo(X:Integer;) return integer

{

 get(X);--comments

 X=X+2;

 while(variable>=100)

 {

 if(true)

 { }

 else

 { }

 }

 return X;

}

@ @

/*multi

line

comments*/

A=foo(A);

put(A);

put(B[2]);

Output 2

```
1 With Keyword
1 std.io Keyword
1 ; Delimiter
2 wITh Keyword
2 gnu.io Keyword
2 ; Delimiter
4 @@ Section_Separator
6 A Identifier
6 : Delimiter
6 InteGer Keyword
6 ; Delimiter
7 B Identifier
7 : Delimiter
7 aRRay Keyword
7 [ Delimiter
7 3 Integer_Literal
7 ] Delimiter
7 of Keyword
7 fLoAt Keyword
7 ; Delimiter
9 function Keyword
9 foo Identifier
9 ( Delimiter
9 X Identifier
9 : Delimiter
9 Integer Keyword
9 ; Delimiter
9 ) Delimiter
9 return Keyword
9 integer Keyword
10 { Delimiter
11 get Keyword
11 ( Delimiter
```

11 X Identifier
11) Delimiter
11 ; Delimiter
12 X Identifier
12 = Operator
12 X Identifier
12 + Operator
12 2 Integer_Literal
12 ; Delimiter
13 while Keyword
13 (Delimiter
13 variable Identifier
13 >= Operator
13 100 Integer_Literal
13) Delimiter
14 { Delimiter
15 if Keyword
15 (Delimiter
15 true Keyword
15) Delimiter
16 { Delimiter
16 } Delimiter
17 else Keyword
18 { Delimiter
18 } Delimiter
19 } Delimiter
20 return Keyword
20 X Identifier
20 ; Delimiter
21 } Delimiter
23 @@ Section_Separator
28 A Identifier
28 = Operator
28 foo Identifier

28 (Delimiter
28 A Identifier
28) Delimiter
28 ; Delimiter
29 put Keyword
29 (Delimiter
29 A Identifier
29) Delimiter
29 ; Delimiter
30 put Keyword
30 (Delimiter
30 B Identifier
30 [Delimiter
30 2 Integer_Literal
30] Delimiter
30) Delimiter
30 ; Delimiter

Test Input 3

@ @

"abc123xyz"

5426

1.234

+

&&

==

abc123

;

funCTion

123.abc

1..234

@

9abcxyz

Output 3

```
1  @@    Section_Separator
2  "abc123xyz"  String_Literal
3  5426    Integer_Literal
4  1.234    Floating_Point_Literal
5  +    Operator
6  &&    Operator
7  ==    Operator
8  abc123    Identifier
9  ;    Delimiter
10 funCTion    Keyword
```

Error at line number 11, Found an unidentified token 123.abc

Error at line number 12, Found an unidentified token 1..234c

Error at line number 13, Found an unidentified token @

Error at line number 14, Found an unidentified token 9abcxyz