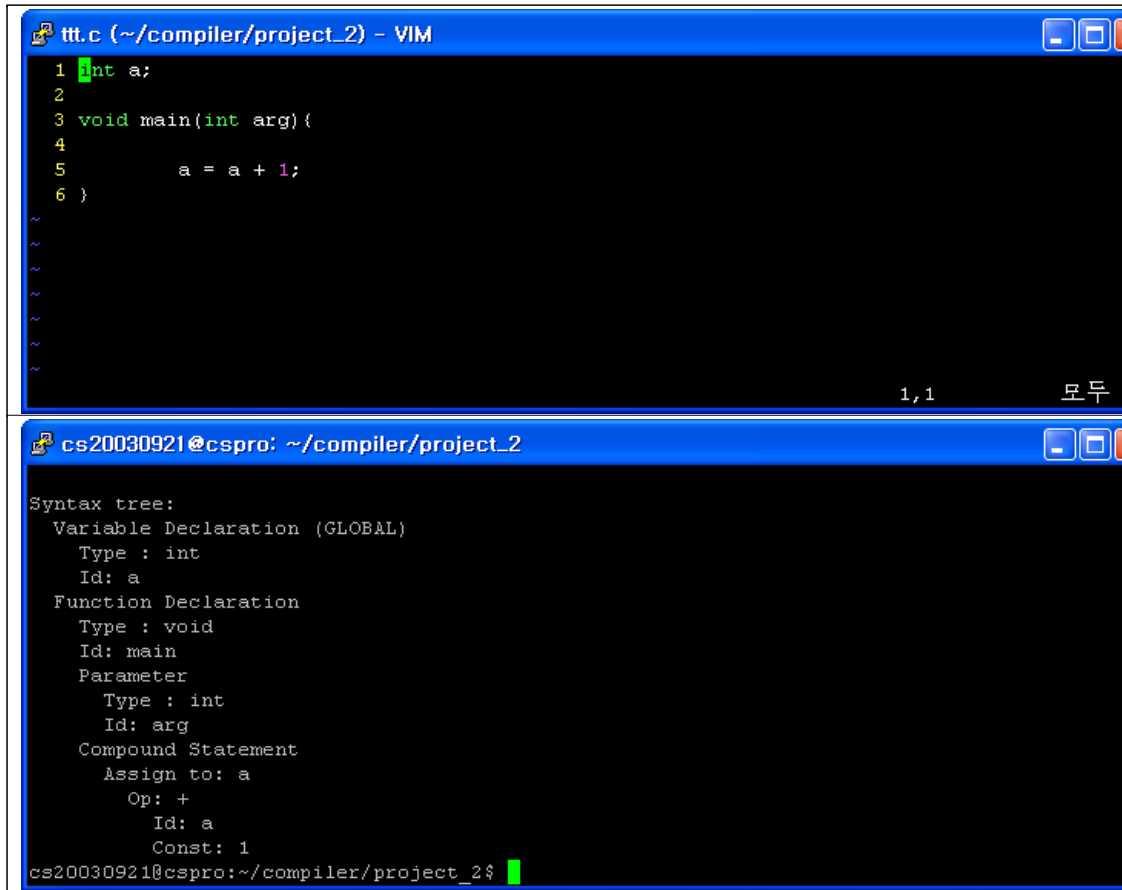


Syntax tree를 Enter와 Tab을 이용하여 출력하도록 한다. 아래의 예시와 같이 타입, 변수 이름, if-else문 등의 syntax tree의 내용을 readability를 높여 자세히 담도록 한다.

1.



The image shows two windows from a terminal. The top window is titled 'ttt.c (~~/compiler/project\_2) - VIM' and contains the following C code:

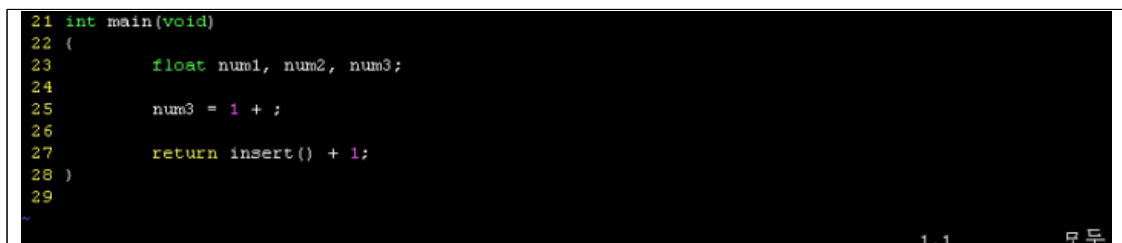
```
1 int a;
2
3 void main(int arg){
4
5     a = a + 1;
6 }
```

The bottom window is titled 'cs20030921@cspro: ~/compiler/project\_2' and displays the syntax tree for the code above:

```
Syntax tree:
Variable Declaration (GLOBAL)
  Type : int
  Id: a
Function Declaration
  Type : void
  Id: main
  Parameter
    Type : int
    Id: arg
  Compound Statement
    Assign to: a
      Op: +
      Id: a
      Const: 1
```

The prompt 'cs20030921@cspro:~/compiler/project\_2\$' is visible at the bottom of the second window.

2.



The image shows a VIM editor window with the following C code:

```
21 int main(void)
22 {
23     float num1, num2, num3;
24
25     num3 = 1 + ;
26
27     return insert() + 1;
28 }
29
```

The status bar at the bottom right shows '1,1' and '모두'.

```
cs20030921@cspro: ~/compiler/project_2
rm -f lexa tm *.o lex.yy.c bisonfile.tab.h bisonfile.tab.c err
bison -d bisonfile.y
bisonfile.y: conflicts: 1 shift/reduce
gcc -g -c main.c
gcc -g -c util.c
gcc -g -c symtab.c
gcc -g -c analyze.c
gcc -g -c code.c
gcc -g -c cgen.c
flex lexfile.l
gcc -g -c bisonfile.tab.c lex.yy.c
gcc -g -o lexa -etiny main.o util.o symtab.o analyze.o code.o cgen.o lex.yy.o bisonfile.tab.o -lfl
/usr/bin/ld: warning: cannot find entry symbol tiny; defaulting to 0000000008048940
Syntax error at line 25: syntax error
Current token: SEMI          ;

Syntax tree:
cs20030921@cspro:~/compiler/project_2$
```