Test case 1 code:

const x3;

.

```
tomas@tomas-ubuntu: ~/Documents/c/Virtual_Machine
Code Compiled Successfullytomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./co
make clean
rm main.o
rm compiler
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make compiler
gcc -c main.c
gcc -o compiler main.o
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler
Code Compiled Successfullytomas@tomas-ubuntu:~/Documents/c/Virtual Machine$ ./co
make clean
rm main.o
rm compiler
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make compiler
gcc -c main.c
gcc -o compiler main.o
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler
Identifier must be followed by =.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machin
e$
```

Indentifier must be follow by =.

Test case 2 code:

var x,y

```
tomas@tomas-ubuntu: ~/Documents/c/Virtual_Machine
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler
Code Compiled Successfullytomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./co
make clean
rm main.o
rm compiler
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make compiler
gcc -c main.c
qcc -o compiler main.o
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler
Identifier must be followed by =.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machin
e$ make clean
rm main.o
rm compiler
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make compiler
qcc -c main.c
gcc -o compiler main.o
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler
Semicolon or comma missing.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$
```

Semicolon or comma missing.

Test case 3 code:

```
var x; x := 3 * (4 + 1.
```

```
tomas@tomas-ubuntu: ~/Documents/c/Virtual_Machine_not as old
CMakeLists.txt
                                main.o
                                Makefile
compiler
compiler_output.txt
                                mcode.txt
ER.txt
                                obj
HW1.PL0.P-machine.Fall2014.doc OLD_compiler_output.txt
HW1_test_case_1
                                parser.h
HW1_test_case_2
                                parserwithstatements
HW1_test_case_3
                                ReadMe.odt
hw2_test_case_1
                                ReadMe.pdf
                                ReadMe.txt
hw2_test_case_2
hw2_test_case_3
                                stacktrace.txt
hw3_test_case_1
                                testcases
hw3 test case 2
                                Virtual Machine.cbp
Incorrect programs.docx
                                Virtual Machine.cbp.cbTemp
Incorrect programs.odt
                                Virtual Machine[Conflict].layout
input.txt
                                Virtual Machine.depend
input.txt~
                                Virtual Machine.layout
lexemelist.txt
                                Virtual Machine.layout.cbTemp
lexemetable.txt
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine_not as old$ ./compiler
Right parenthesis missing.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine_not a
s old$
```

Right parenthesis missing.

Test case 4 code:

const x=;

```
tomas@tomas-ubuntu: ~/Documents/c/Virtual_Machine_not as old
hw2 test case 1
                                ReadMe.pdf
hw2 test case 2
                                ReadMe.txt
                                stacktrace.txt
hw2_test_case_3
hw3_test_case_1
                                testcases
hw3_test_case_2
                                Virtual Machine.cbp
Incorrect programs.docx
                                Virtual Machine.cbp.cbTemp
Incorrect programs.odt
                                Virtual Machine[Conflict].layout
input.txt
                                Virtual Machine.depend
input.txt~
                                Virtual Machine.layout
lexemelist.txt
                                Virtual Machine.layout.cbTemp
lexemetable.txt
                                vm.h
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine_not as old$ ./compiler
Right parenthesis missing.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine_not a
s old$ ./compiler
Undeclared identifier.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine_not as ol
d$ ./compiler
= must be followed by a number.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine
not as old$
```

⁼ must be followed by a number.

Test case 5 code:

begin.

```
tomas@tomas-ubuntu: ~/Documents/c/Virtual_Machine
gcc -o compiler main.o
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler
Semicolon or comma missing.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./c
make clean
rm main.o
rm compiler
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make compiler
gcc -c main.c
gcc -o compiler main.o
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler
Semicolon or comma missing.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./c
ompiler
Identifier must be followed by =.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machin
e$ ./compiler
Semicolon between statements missing.tomas@tomas-ubuntu:~/Documents/c/Virtual Ma
chine$
```

Semicolon between statements missing.

Test case 6 code:

if 4 < 5.

```
tomas@tomas-ubuntu: ~/Documents/c/Virtual_Machine
Semicolon or comma missing.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./c
make clean
rm main.o
rm compiler
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make compiler
gcc -c main.c
gcc -o compiler main.o
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler
Semicolon or comma missing.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./c
ompiler
Identifier must be followed by =.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machin
e$ ./compiler
Semicolon between statements missing.tomas@tomas-ubuntu:~/Documents/c/Virtual_Ma
chine$ ./compiler
then expected.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$
```

then expected.

Test case 7 code:

var x; read .

```
Undeclared identifier.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler

Undeclared identifier.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler

Undeclared identifier.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler

Undeclared identifier.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler

(null)tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make clean

rm main.o

rm compiler

tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make compiler

gcc -c main.c

gcc -o compiler main.o

tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler

Read must be followed by an identifier.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./
```

Read must be followed by an identifier.

Test case 8 code:

read x.

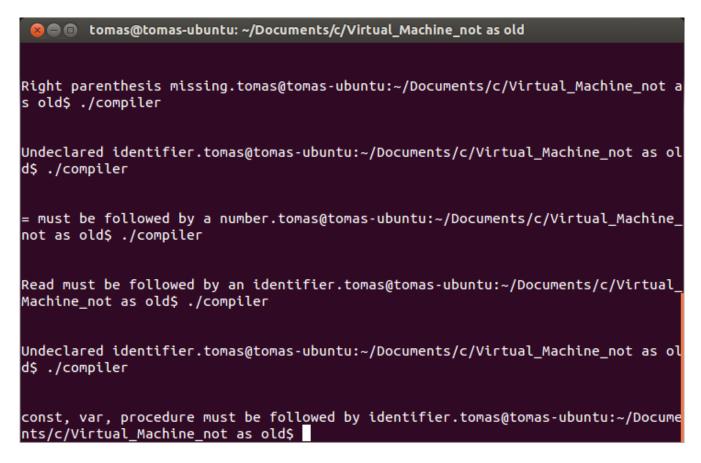
```
tomas@tomas-ubuntu: ~/Documents/c/Virtual_Machine
(null)tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make clean
rm main.o
rm compiler
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make compiler
gcc -c main.c
gcc -o compiler main.o
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler
(null)tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make clean
rm main.o
rm compiler
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ make compiler
gcc -c main.c
qcc -o compiler main.o
tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler
(null)tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$ ./compiler
Undeclared identifier.tomas@tomas-ubuntu:~/Documents/c/Virtual_Machine$
```

undeclared identifier.

Test case 9 code:

const x=4,=5;

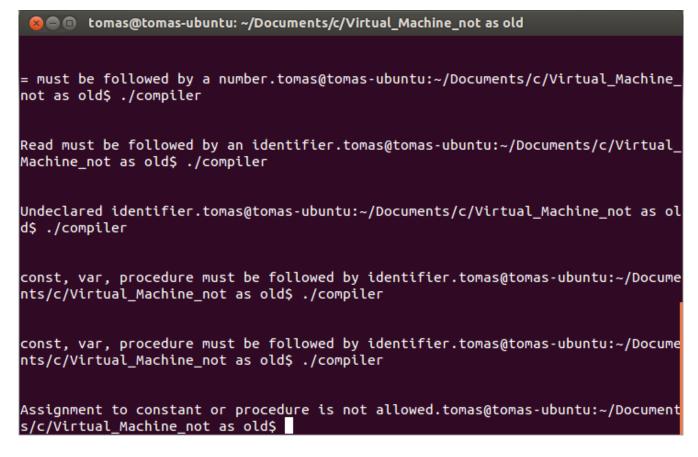
•



const, var, procedure must be follower by identifier.

Test case 10 code:

const x=5; x := 6.



Assignment to constant or procedure is not allowed.