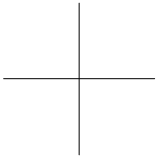


C++ . 24
 , , , , , C++
 C++ . 가
 , ()
 / (4)
 ()

C++ .
 , C++ C++ . C++
 가 .
 24 가 C++ .

C 가?
 C++ C C , C++
 (Stroustrup) C++ 가 , C
 C++ 가 .
 가C 가 . 가C



.C 가

C++ 가?

'X 가 C++

COBOL 가 가

COBOL 가

, C++ Java C# C++

, C++

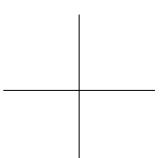
C++ 가 . Java C# awk, Perl, C

, PC

, C++ 가

, 가가 C++

- [Redacted]
- [Redacted]



☺	☹



C++ , C++ [] .
 , 가 []
] .
 [] .
 , 가 가
 (가) .

CD

CD

IDE/ Dev-C++

C++

가

가

Borland

IDE/

C++ BuilderX.

(

).

1

C++

1

2

C++

3

4

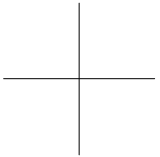
5

6

1

C++

C++ , ,



CD , Dev-C++ IDE Microsoft Windows 가 .
Windows 가 .

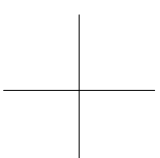
Windows Dev-C++ IDE .
IDE 2

CD

CD , CD \Dev-C++ 가 devcpp-4.9.9.2_setup.exe .

1. 가 .
2. . Korean "OK" .
3. Full .
4. 가 , 가
5. 가 , Dev-C++ 가
6. , "Dev-C++ 5

2 : Borland C++ BuilderX IDE . CD-ROM C++ BuilderX Borland UI
C++ BuilderX /IDE Dev-C++ , Dev-C++
가 IDE Dev-C++



Dev-C++ 4.9.2
 (lang\Korean.lng) . CD \Dev-C++ Korean.lng
 Dev-C++ lang 3

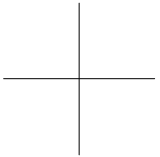
IDE

Dev-C++ IDE . Dev-C++

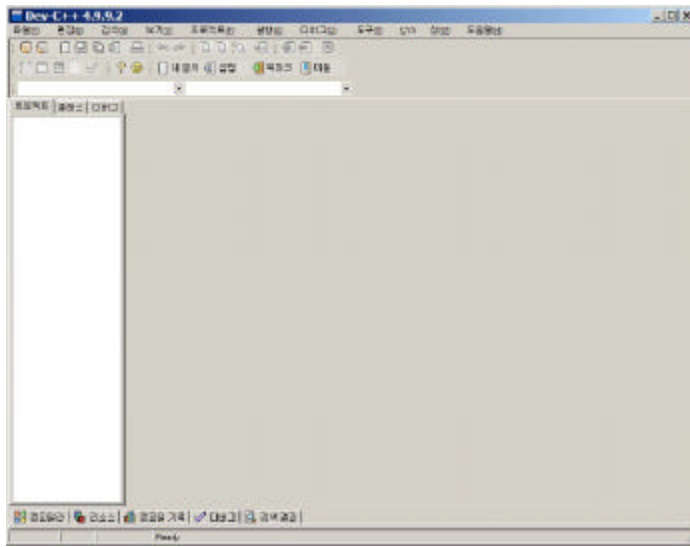
1. Windows - Bloodshed Dev-C++ - Dev-C++
 Dev-C++가 가 .
2. , "Select your language." "Korean()"
 가 .
 "Next"
3. , CPU 가 Yes
 "Next"
4. . Yes 가 . No
 "Next"
5. . "OK" Dev-C++ IDE
 가 . Dev-C++
 , IDE . Dev-C++
 가

3 : , Dev-C++
 projects/devkorcomm/)

2003 (Dev-C++ (http://kldp.net/)



1.1 Dev-C++ IDE



1.1 Dev-C++

IDE

IDE

가

IDE

(toolbar)

가,

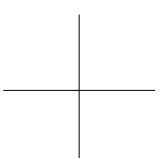
가

/
가

가

. Dev-C++

.dev



가 , ' , ' .

IDE , 가 C++ , C++ .

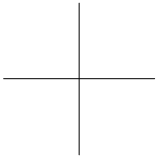
()가 . Windows (Notepad), DOS Edit , Brief, Epsilon, EMACS, vi . WordPerfect Word,



C++ . C++ .cpp, .cxx, .cp, .c, .C . Dev-C++ C++ .cpp .



☺	☹
	ASCII
☺	IDE가
☺	.c, .cp, .cpp가 (Dev-C++ .cpp) .
☺	가 ,



C++ 가 ,
가
가



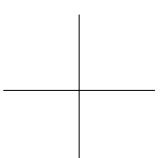
```

가
IDE가 가
가 C++ 가
GNU : g++ < >-o < >
(GNU Linux, Cygwin, Mingw . Dev-C++ Mingw .)
Borland : bcc32 < >-o < >
UNIX : c++ < >-o < >

```

Build
Compile . Dev-C++ IDE
▪ ▪ Ctrl-F9

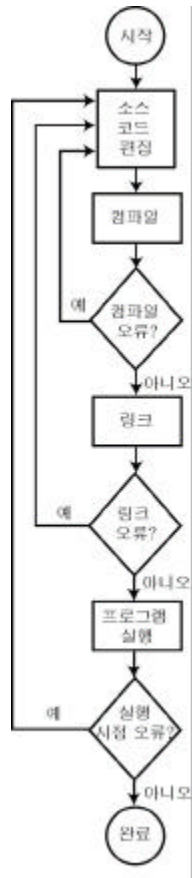
(object file) 가
(link) , 가
, C++
(library) 가
(function) 가
(type)



1. 가 .cpp .
2. .
3. (가).

Dev-C++ IDE 가 ' ' ' Ctrl-F9
 IDE ,
 가 .
 ' ' ' Shift-Ctrl-F9 .

, , , 가 가 .
 가 , 가 , 가 .
 ' (syntax error)'
 가 .
 (warning) , 가
 가 .
 ' (runtime error)' .
 ' (logic error)' .
 , , ,
 (development cycle)
 12 .
 가 .



1.2 C++

C++

- HELLO.CPP

Hello World

C

Kernighan Ritchie가

C

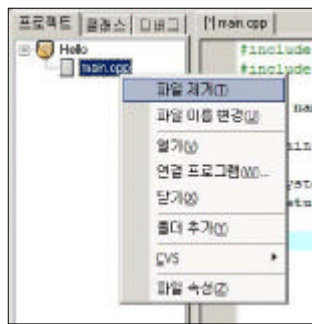
'Hello World'

Dev-C++

. Dev-C++

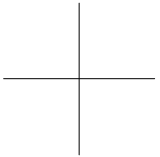
Dev-C++ IDE

"Basic"
 "Console Application"
 Hello
 C C++ , C++가
 가 , Hello.dev
 main.cpp
 main.cpp
 , IDE Hello
 main.cpp (1.3).
 가 , 가 "No" . main.cpp가



1.3 main.cpp

가
 가 가
 "Yes" . 1.1 .



```

1.1 0
#include <iostream>

int main()
{
    std::cout << "Hello World!\n";
    return 0;
}

```

1.1 hello.cpp — Hello World

```

0: #include <iostream>
1:
2: int main()
3: {
4:     std::cout << "Hello World!\n"
5:     return 0;
6: }

```

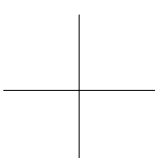
< Shift () Ctrl-S ()
 hello.cpp



```

std::cout std cout . cout
C++
cout
(namespace) . std가
std cout

```

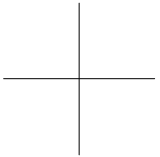


, Dev-C++ 가
 1.1 .
 Dev-C++ 가 0
 가 "Cannot find file iostream"
 가 "include path"
 main (prototype) 가 ,
 2 int main(); 가 가 .
 Dev-C++ 가 ,

```

0: #include <iostream>
1:
2: int main ();
3: int main ()
4: {
5:     std::cout << "Hello World!\n"
6:     return 0;
7: }
```

() , IDE
 (build) (make)
 Dev-C++ make
 Dev-C++ Ctrl+F9 ,
 가
 가 Status Done.
 가
 ...



가 . 가 , IDE 가
 . 가 , 1.1

Ctrl-F10

가 .
 , Dev-C++
 가 . 가
 main () return system("PAUSE"); 가 . 12

1.2 Hello World

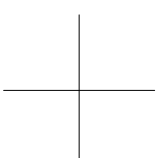
```

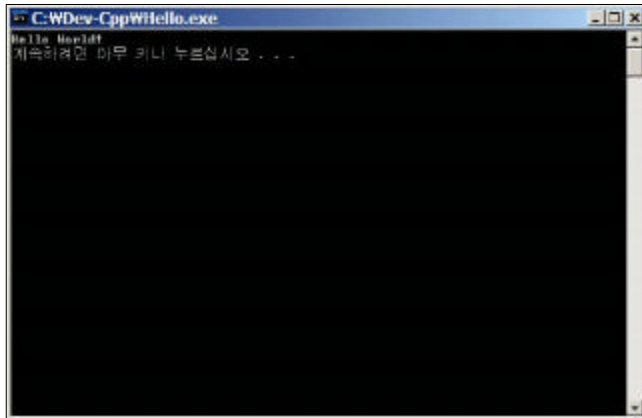
0: #include <iostream>
1: #include <cstdlib> // system()
2: int main ()
3: {
4:     std::cout << "Hello World!\n";
5:     system("PAUSE"); //
6:     return 0;
7: }
```

1 6 가 . 가 .
 가 .

F9

IDE 14





1.4 Hello World

Hello World!

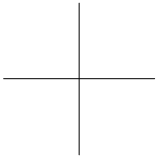
가 가? . C++ , ,
 . , C++
 .

가 , 가 .
 가
 . 가

가 가 . ,
 hello.cpp 6 (13).

1.3 helloworld.cpp —

```
0: #include <iostream>
1:
2: int main()
3: {
4:     std::cout << "Hello World!\n"
5:     return 0;
```



Dev-C++
가

```
main.cpp: In function 'int main()':
main.cpp:6: error: expected ';' before "return"
main.cpp:6: error: expected '}' at end of input
```

6 }가 . 가
,
, 가



가 Dev- C++

CD

CD

CD Examples

C:\Book\Examples ()

2 2.2(comments.cpp)

"Console Application"

comments

가

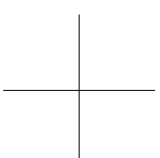
C:\Book\Examples\Hour 02

main.cpp

가

가

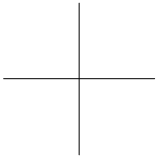
가



가 C:\Book\Examples\Hour 02 comments.cpp
 IDE comment.cpp가 가
 가
 , 12 #include <cstdlib> system("PAUSE"); 가
 가
 가 , hpp 가
 가 .Dev-C++ , .cpp
 , hpp 가 가 .cpp

Dev-C++

Dev-C++ IDE 가
 가
 , 가 가
 1. ■ ■ ■ ■ ■
 2. ■ ■ ■ ■
 "Yes"
 3. ■ ■
 가
 가
 ■ ■ ■ ■ ■ , ■ ■ ■ ■ ■
 ■ ■ ■ ■ ■ , ■ ■ ■ ■ ■ "No"
 Dev-C++ (Dev-C++
 ,)
 5 5.4(passbyvar.cpp)



46

1 C++

main.cpp

passbyvar.cpp

가

(Ctrl-F9)

가



가

passbyvar.cpp

가

가

5.4

가

(breakpoint)

(가)

swap(x, y);

10

15

(

)

```

0 // Listing 5.4 - Demonstrate passing by value
1 #include <iostream>
2
3 void swap(int x, int y)
4 {
5     int main()
6     {
7         int x = 5, y = 10;
8         std::cout << "Main, Before swap, x: " << x
9           << " y: " << y << "\n";
10        swap(x, y);
11        std::cout << "Main, After swap, x: " << x
12          << " y: " << y << "\n";
13        return 0;
14    }
15
16 void swap (int x, int y)
17 {
18     int temp;
19     std::cout << "Swap, Before swap, x: " << x
20       << " y: " << y << "\n";
21     temp = x;
22     x = y;
23     y = temp;
24     std::cout << "Swap, After swap, x: " << x
25       << " y: " << y << "\n";
26 }
27
28

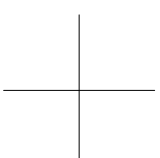
```

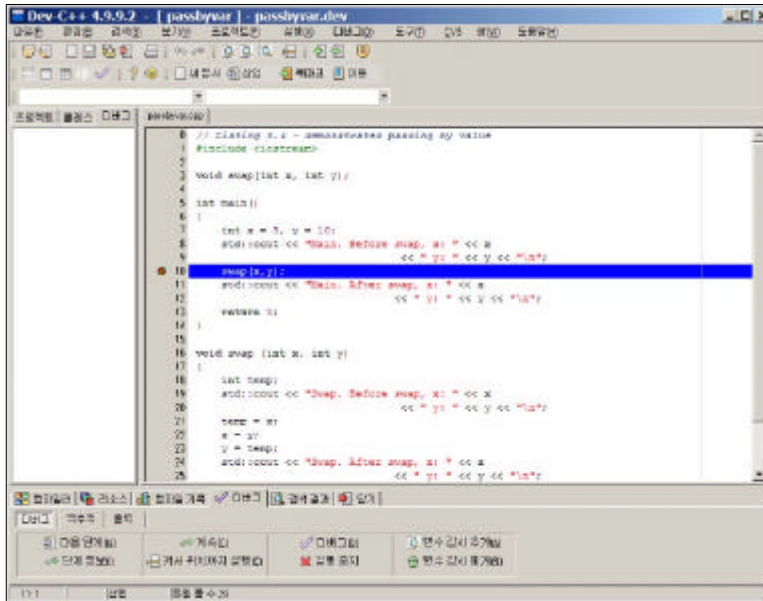
1.5

F8

(1.6).

IDE





```

1 // Listing 1.1 - demonstrates passing by value
2 #include <iostream>
3 void swap(int x, int y)
4 {
5     int main()
6     {
7         int x = 5, y = 10;
8         cout << "Main, before swap, x: " << x
9             << " y: " << y << endl;
10        swap(x, y);
11        cout << "Main, after swap, x: " << x
12            << " y: " << y << endl;
13        return 0;
14    }
15 void swap (int x, int y)
16 {
17     int temp;
18     cout << "Swap, before swap, x: " << x
19         << " y: " << y << endl;
20     temp = x;
21     x = y;
22     y = temp;
23     cout << "Swap, after swap, x: " << x
24         << " y: " << y << endl;
25 }

```

1.6

가

가

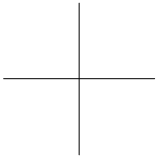
11 return 0;

(F7)

F8

10 (Shift-F7).

11 가 swap () (17).



```

1 // Listing 9.1 - demonstrate passing by value
2 #include <iostream>
3
4 void swap(int x, int y)
5 {
6     int main()
7     {
8         int x = 5, y = 10;
9         std::cout << "Main, Before swap, x: " << x
10        << " y: " << y << "\n";
11        swap(x, y);
12        std::cout << "Main, After swap, x: " << x
13        << " y: " << y << "\n";
14    }
15 }
16 void swap (int x, int y)
17 {
18     int temp;
19     std::cout << "Swap, Before swap, x: " << x
20     << " y: " << y << "\n";
21     temp = x;
22     x = y;
23     y = temp;
24     std::cout << "Swap, After swap, x: " << x
25     << " y: " << y << "\n";
26 }

```

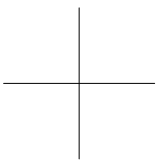
1.7

16 x
 . y temp 가
 x = 5가
 . y 10 temp 0
 , temp 21
 22 가 temp 5
 (1.8).

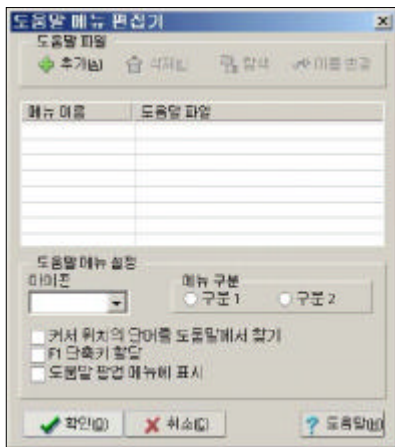


1.8

, Dev-C++
 (CPU)
 C++
 Dev-C++

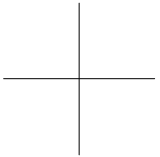


IDE C , (C++ IDE). C++ , Dev-C++가 (gcc, g++) . C++ , GNU gcc (http://gcc.gnu.org/) . 가 , IDE 가 () 가 . 가 (19).



1.9

가 . Windows .hlp .chm HTML , RTF , IDE (HTML) . 'F1 ' F1 .hlp .

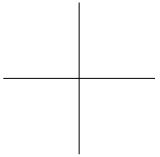


가

Dev-C++ / .
 Dev-C++ - Dev-C++ , http://kldp
 .net/projects/devckorcomm/
 GpGiki Dev-C++ : GpGiki Dev-C++ .
 가 http://www.gpgstudy.com/gpgiki/DevCpp
 Dev-C++ : Dev-C++ ,
 http://www.bloodshed.net/dev/index.html
 MinGW : MinGW GNU gcc Windows ,
 Dev-C++ MinGW C++ , MinGW
 http://www.mingw.org/
 GCC : gcc http://gcc.gnu.org/
 DevPak : DevPak (, GUI
) . DevPak "Package Manager"
 . DevPak DevPak
 http://devpaks.org/

Q&A

Q 가?
 A . , .
 Q IDE ?
 A .
 가 IDE가



가

가

가

Q

?

A

가

가가
가

가

가
가

가

가

가

Q

가?

A

(compile-time)

가

(가)

()

가

1. ?

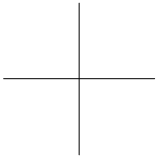
2. ?

3. 가 ?

4. 가?

IDE

CD



1. Dev-C++ IDE(가 IDE)
 - 1. , () .
 2. Dev-C++ (가) , , , .
 3. Dev-C++ (가) , , , , IDE가 가 .
-
1. .
 2. . 가 가 .
 3. , 가 . 가 가 가 .
 4. ASCII 가 . (DOS EDIT, Unix/Linux vi EMACS, Windows) Brief , IDE . 가 , 가 .

