

.setfill(char) , setprecision(int), setw(int)

setw(int) : setw •

```
#include <iostream.h>
#include <iomanip.h>
int main() {
    int n = 64;
    cout << "In hexadecimal : " << hex << n << endl;
    cout << " In octal : " << oct << n << endl;
    cout << " In decimal : " << dec << n << endl;
    // The same display right justified
    cout << setw(20) << "Hexadecimal : " << hex << setw(6) << n << endl;
    cout << setw(20) << "Octal : " << oct << setw(6) << n << endl;
    cout << setw(20) << "Decimal : " << dec << setw(6) << n << endl;

    return 0;
}
```

```
In hexadecimal : 40
In octal : 100
In decimal : 64
    Hexadecimal :  40
           Octal : 100
           Decimal : 64
```

."0"

LL-1

```
#include <iostream.h>
#include <iomanip.h>
const int LL = 10; // maximum size of a line
int main() {
    char line[LL];
    while (cin >> setw(LL) >> line)
        cout << line << endl;
    return 0;
}
```

```
abcdefghijklmnopqrstvwxyz
abcdefghijklmnop
jklmnopqr
stvwxyz
^Z
```

.Ms_Dos

^Z :

.setprecision (int)

```
#include <iostream.>
#include <iomanip.h>

const double pi = 3.141592654;

int main() {
    cout << pi << endl;           // 6 digit by default
    cout << setprecision(9) << pi << endl; // 9 digit
    cout << pi/2.0 << endl;       // we are still on 9 digit
    cout << setprecision(2) << pi << endl; // 2 digit
    return 0;
}
```

3.14159
3.14159265
1.57079633
3.1

setw(int)

setfill(char)

:setfill

```
#include <iostream.h>
#include <iomanip.h>
int main() {
    int n = 64;
    cout << "In hexadecimal : " << hex << n << endl;
    cout << "In octal : " << oct << n << endl;
    cout << "In decimal : " << dec << n << endl;
    // The same display right justified
    cout << setw(20) << "Octal : " << oct << setw(6) << n << endl;
    cout << setw(20) << "Decimal : " << dec << setw(6) << n << endl;

    cout << setw(20) << "In hexadecimal : ";
    cout << hex << setfill('.') << setw(6) << n << endl;
    cout << setfill(' ') << setw(20) << "In octal : ";
    cout << oct << setfill('.') << setw(6) << n << endl;
    cout << setfill(' ') << setw(20) << "In decimal : ";
    cout << dec << setfill('.') << setw(6) << n << endl;

    return 0;
}
```

In hexadecimal : 40
In octal : 100
In decimal : 64
 In hexadecimal : ...40
 In Octal : ...100
 In Decimal : ...64

C++