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function

std::**setw**   <iomanip>

```
/*undefined*/ setw (int n);
```

Set field width

Sets the *field width* to be used on output operations.

Behaves as if member `width` were called with *n* as argument on the stream on which it is inserted/extracted as a manipulator (it can be inserted/extracted on *input streams* or *output streams*).

This manipulator is declared in header `<iomanip>`.

Parameters

n
> Number of characters to be used as field width.

Return Value

Unspecified. This function should only be used as a stream manipulator (see example).

Example

```cpp
// setw example
#include <iostream>      // std::cout, std::endl
#include <iomanip>       // std::setw

int main () {
  std::cout << std::setw(10);
  std::cout << 77 << std::endl;
  return 0;
}
```

Edit & Run

Output:
```
        77
```

Data races

The stream object on which it is inserted/extracted is modified.
Concurrent access to the same stream object may introduce data races.

Exception safety

Basic guarantee: if an exception is thrown, the stream is in a valid state.

See also

setfill	Set fill character (function)
ios_base::width	Get/set field width (public member function)