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function

std::setbase

<iomanip>

/*unspecified*/ setbase (int base);

Set basefield flag

Sets the **basefield** to one of its possible values: **dec**, **hex** or **oct**, according to argument *base*.

Behaves as if **setf**(which, **ios_base::basefield**) were called on the stream on which it is inserted/extracted as a manipulator, with *which* being:

- **dec**, if *base* is 10
- **hex**, if *base* is 16
- **oct**, if *base* is 8
- zero, if *base* is any other value.

It can be inserted/extracted on *input streams* or *output streams*.

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

Parameters

base

Numerical radix to be used:

base argument	same as inserting...
8	oct
10	dec
16	hex
any other	resetiosflags (ios_base::basefield)

Return Value

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

Example

```

1 // setbase example
2 #include <iostream>      // std::cout, std::endl
3 #include <iomanip>       // std::setbase
4
5 int main () {
6     std::cout << std::setbase(16);
7     std::cout << 110 << std::endl;
8     return 0;
9 }
  
```

This code uses the **setbase** manipulator to set hexadecimal as the **basefield** selective flag.

Output:

6e

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

oct	Use octal base (function)
dec	Use decimal base (function)
hex	Use hexadecimal base (function)
ios_base::fmtflags	Type for stream format flags (public member type)

