
C++

运算符重载

创客学院 荣荣老师

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概念

■ C++ 准许以运算符命名函数!!!

```
string a = "hello" ;
```

```
a += " world" ;// +(a, "world" );
```

```
cout<< "hello" ; // <<(cout, "hello" );
```

可重载的运算符

new	delete	new []	delete []					
+	-	*	/	%	^	&		~
!	=	<	>	+=	--	*=	/=	%=
^=	&=	=	<<	>>	>>=	<<=	==	!=
<=	>=	&&		++	--	,	->*	->
()	[]							

不可重载的运算符

The following operators cannot be overloaded:

. .* :: ? :

nor can the preprocessing symbols # and ## (clause 16).

实现形式

■ 成员函数式(第一个行参是对象的引用)

```
class Time{  
public:  
    Time operator+(Time t);  
private:  
    int hour;  
    int min;  
    int sec;  
};  
  
Time a, b;  
Time c = a+b;
```

实现形式

友元函数式(左操作数不是本身, 可交换型)

```
class Time{  
public:  
    friend void operator<<(ostream, Time);  
private:  
    int hour;  
    int min;  
    int sec;  
};
```

```
Time a;  
std::out<<a;
```

分类

数学运算符

+ - * / ++ --

关系运算符

== >= <= !=

特殊运算符

[]

= 赋值运算符

() 仿函数

<< 输出运算符

扫一扫，获取更多信息



THANK YOU