

error : \$S1 : modifiers not allowed ?!

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Source: <http://www.tech-archive.net/Archive/VC/microsoft.public.vc.language/2008-03/msg00159.html>

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Hello,

the following source code is not correct, but i cannot understand the error message:

```
foo.cpp(20) : error C2270: '$S1' : modifiers not allowed on nonmember
functions
foo.cpp(20) : error C4430: missing type specifier – int assumed. Note: C++
does not support default-int
```

what does this \$S1 mean?

Here is the sample:

```
===== foo.cpp =====
class Foo;
```

```
class Bar
{
public:
operator Foo() const;
};
```

```
struct Foo;
```

```
typedef struct Foo
{
} Foo;
```

```
Bar::operator Foo() const
{
return Foo();
}
```

```
=====
```

```
cl -W4 -nologo foo.cpp
foo.cpp
foo.cpp(12) : warning C4099: 'Foo' : type name first seen using 'class' now
```

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seen using 'struct'

foo.cpp(2) : see declaration of 'Foo'

foo.cpp(15) : warning C4099: 'Foo' : type name first seen using 'class' now
seen using 'struct'

foo.cpp(2) : see declaration of 'Foo'

foo.cpp(19) : error C2738: 'operator Foo' : is ambiguous or is not a member
of 'Bar'

foo.cpp(7) : see declaration of 'Bar'

foo.cpp(20) : error C2270: '\$S1' : modifiers not allowed on nonmember
functions

foo.cpp(20) : error C4430: missing type specifier – int assumed. Note: C++
does not support default–int

foo.cpp(21) : error C2440: 'return' : cannot convert from 'Foo' to 'int'
No user–defined–conversion operator available that can perform this
conversion, or the operator cannot be called

foo.cpp(22) : error C2617: '\$S1' : inconsistent return statement

foo.cpp(19) : see declaration of '\$S1'

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error : \$S1 : modifiers not allowed ?!