
Subject: Tree container - compile error when using Add()

Posted by [wimpie](#) on Tue, 06 Oct 2020 17:08:29 GMT

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I'm adding a few line in the TreeTest package, main.cpp :

```
<snip>
//Node<Element>
<snip>
ASSERT(ssa.IsEqual(sa));

Node<Element> test; // added
test.leaf.name = "add-test"; //
test.leaf.value = 12345; //
roota.Add(test); // to here
```

```
#if 1
<snip>
```

this looked simple enough, but gives the following error (clang) :

```
/home/tommie/Programming/ultimatepp/uppsrc/Core/Vcont.h:347:56: error: call to
implicitly-deleted copy constructor of 'Upp::Node<Upp::Element>'
```

```
    T&    Add(const T& x)          { T *q = new T(x); vector.Add(q); return *q; }
                                ^ ~
```

```
/home/tommie/Programming/ultimatepp/bazaar/Tree/Tree.h:34:50: note: in instantiation of
member function 'Upp::Array<Upp::Node<Upp::Element> >::Add' requested here
```

```
    T&    Add(const T& x)          { T& t = B::Add(x); LinkChild(t); t.Relink(); return t; }
                                ^
```

```
/home/tommie/Programming/ultimatepp/bazaar/TreeTest/main.cpp:44:8: note: in instantiation of
member function 'Upp::Tree<Upp::Node<Upp::Element> >::Add' requested here
```

```
    roota.Add(test);              // to here
    ^
```

```
/home/tommie/Programming/ultimatepp/bazaar/Tree/Tree.h:151:4: note: copy constructor of
'Node<Upp::Element>' is implicitly deleted because base class 'Tree<Node<Upp::Element> >' has
a deleted copy constructor
```

```
    : public Tree<Node<T> >
    ^
```

```
/home/tommie/Programming/ultimatepp/bazaar/Tree/Tree.h:10:4: note: copy constructor of
'Tree<Upp::Node<Upp::Element> >' is implicitly deleted because base class
'Array<Upp::Node<Upp::Element> >' has a deleted copy constructor
```

```
    : protected Array<T>, MoveableAndDeepCopyOption<Tree<T> >
    ^
```

```
/home/tommie/Programming/ultimatepp/uppsrc/Core/Vcont.h:437:2: note: copy constructor is
implicitly deleted because 'Array<Upp::Node<Upp::Element> >' has a user-declared move
constructor
```

```
    Array(Array&& v) : vector(pick(v.vector)) {}
    ^
```

What am I doing wrong?

regards,

Willem

btw. GCC also gives an error, which is not captured in Thelde's error list (?!)

File Attachments

1) [main.cpp](#), downloaded 351 times
