
Subject: Re: again... use if deleted function :?

Posted by [idkfa46](#) on Sun, 21 Jan 2018 11:43:50 GMT

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Thank you Oblivion,

I read something about copy and move semantics and I solved my issue defining a copy constructor as you suggested.

By the way is not clear for me when you write:

Quote:

// By the way, returning a QTFSr from this function shoudn't be necessasy at all, since you are already modifying the referenced instance! (it is non-const), unless you really need a copy of it. It is a much cheaper solution.

What is the much cheaper solution?

And then, how can I define a copy constructor for a Template<class T> function such as:

```
template<class T> void SortDurata(VectorMap<int, T> &Load)
{
    //Riordina VectorMap in ordine crescente
    Vector<int> keys = Load.PickKeys();
    Vector<T> values = Load.GetValues();
    IndexSort(keys, values);
    Load.Clear();
    Load = VectorMap<int, T>(keys, values);
}
```

C:\Users\Matteo\Dropbox\2_Sviluppo++\Workspace_upp\LibCombiner\TabellaCarichi.cpp (192):

error: use of deleted function 'Upp::VectorMap<Upp::String, Upp::Vector<Upp::Value> >& Upp::VectorMap<Upp::String, Upp::Vector<Upp::Value> >::operator=(const Upp::VectorMa p<Upp::String, Upp::Vector<Upp::Value> >&)'

C:\upp\uppsrc\Core\Map.h (193): error: use of deleted function 'Upp::AMap<Upp::String, Upp::Vector<Upp::Value>, Upp::Vector<Upp::Vector<Upp::Value> > >& Upp::AMap<Upp::String, Upp::Vector<Upp::Value>, U

pp::Vector<Upp::Vector<Upp::Value> > >::operator=(const Upp::AMap<Upp::String, Upp::Vector<Upp::Value>, Upp::Vector<Upp::Vector<Upp::Value> > >&)'

C:\upp\uppsrc\Core\Map.h (33): error: use of deleted function 'Upp::Index<Upp::String>& Upp::Index<Upp::String>::operator=(const Upp::Index<Upp::String>&)'

C:\upp\uppsrc\Core\Index.h (80): note: 'Upp::Index<Upp::String>&

Upp::Index<Upp::String>::operator=(const Upp::Index<Upp::String>&)' is implicitly declared as deleted because 'Upp::Index<Upp::String>' declares a move constructor or move assignment operator

() : class Index : MoveableAndDeepCopyOption<Index<T>> {

```
C:\uppsrc/Core/Map.h (33): error: use of deleted function 'constexpr
Upp::Vector<Upp::Vector<Upp::Value> >& Upp::Vector<Upp::Vector<Upp::Value>
>::operator=(const Upp::Vector<Upp::Vector<Upp::Value>
>&)'
C:\Users\Matteo\Dropbox\2_Sviluppo++\Workspace_upp\LibCombiner\TabellaCarichi.cpp (195):
error: use of deleted function 'Upp::VectorMap<Upp::String, Upp::Vector<Upp::Value> >&
Upp::VectorMap<Upp::String, Upp::Vector<Upp::Value> >::operator=(const Upp::VectorMa
p<Upp::String, Upp::Vector<Upp::Value> >&)'
C:\Users\Matteo\Dropbox\2_Sviluppo++\Workspace_upp\LibCombiner\Combiner.h (112): error:
use of deleted function 'constexpr Upp::Vector<_G>::Vector(const Upp::Vector<_G>&)'
C:\Users\Matteo\Dropbox\2_Sviluppo++\Workspace_upp\LibCombiner\Combiner.h (115): error:
cannot bind rvalue reference of type 'Upp::Vector<int>&&' to lvalue of type 'Upp::Vector<int>'
C:\Users\Matteo\Dropbox\2_Sviluppo++\Workspace_upp\LibCombiner\Combiner.h (112): error:
use of deleted function 'constexpr Upp::Vector<_Q>::Vector(const Upp::Vector<_Q>&)'
C:\Users\Matteo\Dropbox\2_Sviluppo++\Workspace_upp\LibCombiner\Combiner.h (115): error:
cannot bind rvalue reference of type 'Upp::Vector<int>&&' to lvalue of type 'Upp::Vector<int>'
```

Best regards,
Matteo
