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 QTFStr 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::VectorMap<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>, Upp::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  I ndex  : MoveableAndDeepCopyOption<Index<T>> {
```

C:\upp/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::VectorMap<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