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Subject: Request: please make Range classes compatible with Vector!

Posted by [piotr5](#) on Thu, 12 Oct 2017 05:20:23 GMT

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well, range isn't really moveable, actually it inherits moveable from the iterator it contains. however, I use it as Key to a map with iterator being just a pointer to some const characters. for that purpose I had to use NTL\_MOVEABLE, create a "GetHashValue(const SubRangeClass&){return xxHash(...);}" and a specialization of SubRangeClass<const char\*> containing an empty constructor.

the latter I see as a bug, SubRangeClass IMHO should have a constructor taking no arguments marked as protected, useable for its Vector friend. i.e. 2 changes: add containers making use of Create() or Add() or whatever to a list of friends for range classes, maybe put these additions into a friend-macro for others to use in their classes too. and then add SubRangeClass() constructor as a protected (or private) member.

The Range classes are a great addition to Upp! finally I can work with substrings without having to create yet another instance of the same text over and over again. however, in my observation substrings I actually need mostly for Keys in a Map, for example in a command-parser taking long commands or short ones which are a substring of the long commands. another use-case is indexing stuff for faster substring-search. it improves cache usage, often less memory is used too. if I had to enclose them in Value objects for storage, guess the overhead would kill some of these advantages...

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