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Subject: Re: are there any sorting routines?

Posted by [mirek](#) on Tue, 23 May 2006 19:36:35 GMT

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Sure. Guess what, it is called "Sort" (Or, if you need to retain ordering of equal items, "StableSort").

For your example, you will need to create ordering predicate - in common case, that is class with ordering operator()(T, T). Anyway, here what you need is ordering by GetCount method, therefore you can use

```
Sort(something, MethodRelation(&Array<int>::GetCount, StdLess<int>()));
```

BTW, this is quite similar to STL, however one important difference is that in U++, Sort is guaranteed to work as long as T has defined IterSwap (no copy in necessary), and StableSort is guaranteed to work if there is any transfer operation (means, instead of deep copy, it is enough to have just pick). (BTW, one unresolved drawback is that at the moment, StableSort is unable to sort polymorphic arrays, anyway, that is quite corner case. And you can always use GetSortOrder.).

Mirek

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