
Subject: Re: Transfer Semantics - Initializer list and copy constructors

Posted by [mirek](#) on Sun, 30 Sep 2007 06:32:11 GMT

[View Forum Message](#) <> [Reply to Message](#)

forlano wrote on Sat, 29 September 2007 18:27luzr wrote on Tue, 10 July 2007 22:11The simple rule: Do what you need. If you get crash because of broken pick semantics (the ASSERT in Vector with items = -1), use "deep copy variant" (<=< instead of =, constructor with additional int parameter (e.g. 1).

Hello,

for first time I needed to copy the content of a vector in another vector WITHOUT to destroy the original vector. This is my class:

```
class Person : Moveable<Person> {
    int currentProposer;
    int cursor;
    public:
    Index<int> preference;
    int RankProposer(int k);
        int GetNext();    int GetCurrentRank();    int GetCurrentProposer();
        int GetProposedTo();
    int FindPosition(int k);
    void AcceptProposal(int k);
    String ToString() const { String s; for (int i=0; i<preference.GetCount();i++)
s<<AsString(preference[i]) + ' '; return s; }
    Person() {currentProposer = 0; cursor = -1; }
};
```

Then I declared two vectors:

```
Vector<Person> M, R;
```

After some operations made with M I would like to copy M in R. I used

```
R<=<M;
```

But the program crashed. Which is the correct syntax for this task?

Thanks,

Luigi

Unfortunately, this case is a little bit more complicated, you also have to provide deep copy operations for Person (which, frankly, is a tedious process, but there is no other way).

At minimum provide Person(const Person&, int) constructor that creates deep copy, and use DeepCopyOption template as base class to generate the rest.

Search

[http://www.ultimatepp.org/srcdoc\\$Core\\$pick_\\$en-us.html](http://www.ultimatepp.org/srcdoc$Core$pick_$en-us.html)

for "DeepCopyOption".

Mirek
