Subject: Re: Heap-leaks and polymorphic containers Posted by mrjt on Tue, 13 May 2008 13:46:55 GMT

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```
luzr wrote on Mon, 12 May 2008 18:05Well, virtual destructor is absolutely required here. Hmm. I
understand why this works (the implicit destructor isn't virtual):
struct Item: public Moveable<Item> {
String name;
virtual ~Item() { }
};
struct Collection : public Item
Array<Item> items;
};
GUI_APP_MAIN
Collection *col = new Collection();
col->items.Add();
Item *item = (Item *)col;
delete item;
But what baffles me is why this works with Vector, but not Array (the Array's destructor doesn't get
called but the Vector one does).
struct Item: public Moveable<Item> {
String name;
};
struct Collection: public Item
Vector<Item> items; // Heap leak if changed to Array
};
GUI APP MAIN
Collection *col = new Collection();
col->items.Add();
Item *item = (Item *)col;
delete item;
}
```