

Re: stack display

Source: <http://coding.derkeiler.com/Archive/C/ CPP/alt.comp.lang.learn.c-cpp/2004-04/0022.html>

From: James Dennett (jdennett_at_acm.org)

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B. v Ingen Schenau wrote:

> *stef* wrote:

>

>

>> *I want to display a stack but keep the elements in the stack as they were.*

>> *Does anyone know an easy way to do this? I am using the standard library*

>> *stack.*

>

>

> *There is not an easy way, as in a member function that gives you (read-only)*

> *access to the contained elements.*

> *However, std::stack is not a container in itself, but merely a wrapper*

> *around one of the other standard containers (by default around*

> *std::deque<>).*

> *One of the requirements that the standard imposes is that std::stack*

> *contains a protected member 'Container c', where Container is the type of*

> *container that std::stack uses internally.*

>

> *If you create a class that inherits from std::stack, you can then provide*

> *access to the underlying container object.*

> *It should be noted that std::stack does not have a virtual destructor, so it*

> *would be a bad idea to have a pointer (or reference) of type std::stack*

> *that actually refers to an object of your derived type, and through which*

> *you destroy the stack object.*

>

> *Bart v Ingen Schenau*

Another alternative is to copy the stack, and then to destroy the copy, leaving the original untouched.

— James.