

Re: Sequence point problem?

Source: http://coding.derkeiler.com/Archive/C_CPP/comp.lang.cpp/2005-02/0754.html

From: Victor Bazarov (v.Abazarov_at_comAcast.net)

Date: 02/05/05

Date: Sat, 5 Feb 2005 15:31:49 -0500

"Dave" <better_cs_now@yahoo.com> wrote...

> *Can anybody identify any sequence point problems in the expression below?*

>

> *`i = (i == string::npos) ? 0 : ++i;`*

The Standard says that between sequence points (and there are none in this expression) a stored value of any object shall be modified at most once. If the expression in the parentheses yields false, 'i' will be modified twice, once by ++ and the other time with the assignment, which causes undefined behaviour. If you rewrite this as

```
i = (i == string::npos) ? 0 : i + 1;
```

there would be no problem.

V