

Re: comparison between signed and unsigned int

Source: http://coding.derkeiler.com/Archive/C_CPP/comp.lang.c/2007-09/msg03524.html

- *From:* CBFalconer <cbfalconer@xxxxxxxx>
 - *Date:* Fri, 21 Sep 2007 15:17:19 -0400
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compcreator@xxxxxxxx wrote:

I have tried the following program. The problem is it is printing False

.... snip ...

```
void main() {
    unsigned int a = 5;
    signed int b = -1;

    if (b <= a) printf("True");
    else printf("False");
}
```

Can somebody explain why is this happening....?

a is signed and negative, and cannot fit into the range covered by b. Therefore it is converted to an unsigned value before comparing. The conversion results in UINT_MAX, which is considerably larger than 5. Signed can always be converted to unsigned, but not the reverse.

Get rid of the 'void main()', which marks you as unknowing. main returns an int, say and do so. The satisfactory return values are 0, EXIT_SUCCESS, and EXIT_FAILURE. The latter two require #include <stdlib.h>. Also specify void in the parameter list, unless you are using argc and argv.

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Chuck F (cbfalconer at mainline dot net)
Available for consulting/temporary embedded and systems.
<<http://cbfalconer.home.att.net>>

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Posted via a free Usenet account from <http://www.teranews.com>

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