
Subject: Re: Time for little quiz!

Posted by [hojtsy](#) on Wed, 05 Apr 2006 12:26:40 GMT

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luzr wrote on Wed, 05 April 2006 06:04

Now I know that q is positive number or zero. By negating positive number, you obviously get 1 in the highest bit. I am afraid there is no guarantee provided by the C++ standard for the bit encoding of negative numbers. Depending on any specific encoding could be either implementation-defined or undefined behaviour. I suggest some other variants which have standard-defined behaviour.

```
if(q) colorcount++;          // supposed to be slow(?)
colorcount += (-q >> 31) & 1; // luzr's solution
colocount += bool(q);        // suggested solution 1
colocount += (q != 0);       // suggested solution 2
colocount += !!q;            // suggested solution 3
```