# Subject: Quiz: What is wrong with this code? 

Posted by mirek on Mon, 10 Jul 2006 21:16:57 GMT
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struct Rect_ \{
Pt CenterPoint() const $\quad\{$ return $\operatorname{Pt}(($ left + right $) / 2$, (top + bottom) / 2); \}
\};
...should compute the central point of Rect...
(...fixed).

Mirek

Subject: Re: Quiz: What is wrong with this code?
Posted by unodgs on Tue, 11 Jul 2006 07:15:48 GMT
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luzr wrote on Mon, 10 July 2006 17:16
struct Rect_ \{
Pt CenterPoint() const $\quad\{$ return $\operatorname{Pt}(($ left + right $) / 2$, (top + bottom $) / 2) ;\}$
$\cdots$
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Mirek
Interesting.. looks fine to me..
Normaly computation of center point looks like:
top $+($ bottom - top $) / 2$
but it evaluates to:
top + bottom $/ 2-$ top $/ 2=$
top $/ 2+$ bottom $/ 2=$
(top + bottom) / 2

Is that bug related to const modifier??

Subject: Re: Quiz: What is wrong with this code?
Posted by mirek on Tue, 11 Jul 2006 15:25:44 GMT
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unodgs wrote on Tue, 11 July 2006 03:15luzr wrote on Mon, 10 July 2006 17:16
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Is that bug related to const modifier??
No. The problem is when top and bottom are ints and top + bottom is negative - "evaluates" is no longer true....

Mirek

[^0]luzr wrote on Tue, 11 July 2006 11:25
No. The problem is when top and bottom are ints and top + bottom is negative - "evaluates" is no longer true....

Yes, negatives... they didn't come into my mind

Subject: Re: Quiz: What is wrong with this code?
Posted by pap2k on Wed, 11 Jul 2007 12:12:30 GMT
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Is it fix ?
the folowing sample produce wrong result on my fresh version :
Pointf center =
Rectf(Pointf(-1.0,82), Pointf(7,-92)).CenterPoint();

Subject: Re: Quiz: What is wrong with this code?
Posted by pap2k on Wed, 11 Jul 2007 12:22:26 GMT
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I'm stupid man ...
result produce is good ... that's my in mind calculation wich was false.
I'm sory to disturb you.


[^0]:    Subject: Re: Quiz: What is wrong with this code?
    Posted by unodgs on Tue, 11 Jul 2006 21:36:22 GMT
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