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 { return 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
                                    { return Pt((left + right) / 2, (top + bottom) / 2); }
. . . . .
};
...should compute the central point of Rect...
(...fixed).
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
```

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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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??
No. The problem is when top and bottom are ints and top + bottom is negative - "evaluates" is no
longer true....
Mirek
```

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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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 following 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.