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
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

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