

Re: A question on GIT.

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From: Herman Jurjus (h.jurjus_at_hetnet.nl)

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peter_douglass wrote:

> "*Herman Jurjus*" wrote in message
> news:2qan75Ftaq0lU1@uni-berlin.de...

[snip]

I need to work a bit on a good reply to your post. In the meantime, however, i can reply to this:

> *What do you mean by "the only models of your theory would be non-standard?" What do you mean by non-standard numbers?*

There exist models of PA (or Presburger Arithmetic, for that matter) that contain an element x such that

$0 < x, 1 < x, 2 < x$, etc.

This is a consequence of what one calls the 'compactness theorem' for first order predicate logic.

Such 'unintended' models of PA are called non-standard, and x 's having that property are called non-standard.

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Cheers,
Herman Jurjus