Status:	Closed	Priority: Normal		
Author:	Gerhard Blab	Category:		
Created:	12/03/2015	Assignee:		
Updated:	02/02/2016	Due date:		
Description:	I am using the questions below (either interval or numeric) in a 16-paper random-order test for my students.			
	I would expect to see 0 or 5 points for the interval questions, and 0, 3, or 5 points for the numerical, in			
	accordance with their answers.			
	What I get after scoring is 0, 2, and 5 for interval, and 0, 2, 3, 5 and 7 (!!) points for the numeric any ideas			
	what is wrong here?			
	<pre></pre>			
	\element{keplerSkill}{			
	\begin{question}{cometApohelInterval}\scoring{e=0,v=0,b=5,m=0}			
	<pre>□\FPeval\FOne{ trunc(1.0 + trunc(random * 3,0),0) }</pre>			
	<pre>□\FPeval\FTwo{ trunc(5.0 + 2*trunc(random * 2,0),0) }</pre>			
	□ \FPeval\RMin{ (trunc(2 + random * 4,1)) }			
	□ \FPeval\RMax{ ((FOne + FTwo) / (FTwo - FOne) * RMin) }			
	□ A comet with a perihelion (closest distance to the sun) of \RMin ~AU (astronomical units) has			
	an eccentricity \$\epsilon\$ of \$\frac{\FOne}{\FTwo}\$. What is its aphelion (in AU)? Select the right interval.~(5			
	points)			
	\begin{multicols}{4}			
	\begin{choices}[o]			
	0 0 \AMCIntervals{\RMax}{2}{25}{2}			
	\[\end{choices}			
	I \end{multicols}			
	I \end{question}			
	}			
	\element{keplerSkill}{			
	D\begin{questionmultx}{cometApohelNumChoice}			
	I\FPeval\FOne{ trunc(1 + trunc(random * 3,0),0) }			
	I\FPeval\FTwo{ trunc(5 + 2*trunc(random * 2,0),0) }			
	I\FPeval\RMin{ trunc(2 + random * 4,1) }			
	I\FPeval\RMax{ ((FOne + FTwo) / (FTwo - FOne) * RMin) }			
	□ A comet with a perihelion (closest distance to the sun) of \RMin~AU (astronomical units) has			
	an excentricity \$\epsilon\$ of \$\frac\FOne\FTwo\$. What is its apohelion (in AU)? Calculate the value to one			
	decimal.~(5 points)			
	AMCnumericChoices{\RMax}{digits=3,	decimals=1,sign=true,		
	□ □ borderwidth=0pt,backgroundcol=white, exact=2, approx=5,			
	□ scoreexact=5, scoreapprox=3}			
	□ \end{questionmultx}			
	}			

Auto Multiple Choice - Bug # 393: Grading scheme of AMCnumericChoice is off

History

12/03/2015 05:50 pm - Gerhard Blab

After realizing that the scoring of the /AMCInterval and /AMCnumericChoices depended on *where* in the test the question was located, I have changed the /scoring in two *different* of my questions (from \scoring{mz=2} to \scoring{e=0,v=0,b=2,m=0}), which seems to solve the issue. Still, it is a bug, as scoring in one question messes up (exclusively) the scoring of following questions!

12/04/2015 01:27 pm - Gerhard Blab

- File source.tex added
- File minimal.tex added
- File DOC-sujet.pdf added
- File QuizTestMinimal.csv added

I have generated a sort of 'minimal' version of the test in question. The problem becomes apparent when filling in e.g. version 1, 3, 6, 10 and 15 (all correct answers) - all version should have the same number of points, the only difference are two questions which are given either as /AMCInterval or /AMCnumericChoice (both worth 5 points). In this example, the grading of the /AMCInterval question leads to a later question gaining 5 points (qMone and qMtwo, should be 3, gets 8 points) ...

I am stumped why the order (or type) of one question can change the points value of another question; I would be very happy if someone could point out the error that I made -- that would be the easiest solution -- but otherwise this would be some pretty major bug in this otherwise very helpful program ...

12/06/2015 10:38 pm - Alexis Bienvenüe

- Description changed from I am using the questions below (either interval or numeric) in a 16-paper random-order test for my students. I would expect to see 0 or 5 points for the interval questions, and 0, 3, or 5 points for the numerical, in accordance with their answers.

What I get after scoring is 0, 2, and 5 for interval, and 0, 2, 3, 5 and 7 (!!) points for the numeric ... any ideas what is wrong here?

\element{keplerSkill}{

□ \begin{question}{cometApohelInterval}\scoring{e=0,v=0,b=5,m=0}

□ \FPeval\FOne{ trunc(1.0 + trunc(random * 3,0),0) }

□ \FPeval\FTwo{ trunc(5.0 + 2*trunc(random * 2,0),0) }

□ \FPeval\RMin{ (trunc(2 + random * 4,1)) }

□ \FPeval\RMax{ ((FOne + FTwo) / (FTwo - FOne) * RMin) }

I \calcQuestion{} A comet with a perihelion (closest distance to the sun) of \RMin ~AU (astronomical units) has an eccentricity \$\epsilon\$ of \$\frac{\FOne}{\FTwo}\$. What is its aphelion (in AU)? Select the right interval.~(5 points)

Ubegin{multicols}{4}

- I \begin{choices}[o]
- 00 \AMCIntervals{\RMax}{2}{25}{2}
- \end{choices}
- I \end{multicols}
- □ \end{question}
- }

\element{keplerSkill}{

□ \begin{questionmultx}{cometApohelNumChoice}

□ \FPeval\FOne{ trunc(1 + trunc(random * 3,0),0) }

□ \FPeval\FTwo{ trunc(5 + 2*trunc(random * 2,0),0) }

□ \FPeval\RMin{ trunc(2 + random * 4, 1) }

□ \FPeval\RMax{ ((FOne + FTwo) / (FTwo - FOne) * RMin) }

I \calcQuestion{} A comet with a perihelion (closest distance to the sun) of \RMin~AU (astronomical units) has an excentricity \$\epsilon\$ of \$\frac{FOne}FTwo\$. What is its apohelion (in AU)? Calculate the value to one decimal.~(5 points)

□ \AMCnumericChoices{\RMax}{digits=3,decimals=1,sign=true,

D borderwidth=0pt,backgroundcol=white, exact=2, approx=5,

□ □ scoreexact=5, scoreapprox=3}

□ \end{questionmultx}

} to I am using the questions below (either interval or numeric) in a 16-paper random-order test for my students.

I would expect to see 0 or 5 points for the interval questions, and 0, 3, or 5 points for the numerical, in accordance with their answers.

What I get after scoring is 0, 2, and 5 for interval, and 0, 2, 3, 5 and 7 (!!) points for the numeric ... any ideas what is wrong here?

\element{keplerSkill}{

□ \begin{question}{cometApohelInterval}\scoring{e=0,v=0,b=5,m=0}

□ \FPeval\FOne{ trunc(1.0 + trunc(random * 3,0),0) }

□ \FPeval\FTwo{ trunc(5.0 + 2*trunc(random * 2,0),0) }

□ \FPeval\RMin{ (trunc(2 + random * 4,1)) }

□ \FPeval\RMax{ ((FOne + FTwo) / (FTwo - FOne) * RMin) }

I \calcQuestion{} A comet with a perihelion (closest distance to the sun) of \RMin ~AU (astronomical units) has an eccentricity \$\epsilon\$ of \$\frac{\FOne}{\FWo}\$. What is its aphelion (in AU)? Select the right interval.~(5 points)

- □ \begin{multicols}{4}
- □ \begin{choices}[o]

00 \AMCIntervals{\RMax}{2}{25}{2}

□ \end{choices}

I \end{multicols}

□ \end{question}

}

\element{keplerSkill}{

□ \begin{questionmultx}{cometApohelNumChoice}

□ \FPeval\FOne{ trunc(1 + trunc(random * 3,0),0) }

□ \FPeval\FTwo{ trunc(5 + 2*trunc(random * 2,0),0) }

□ \FPeval\RMin{ trunc(2 + random * 4,1) }

```
□ \FPeval\RMax{ ((FOne + FTwo) / (FTwo - FOne) * RMin) }
```

L \calcQuestion{} A comet with a perihelion (closest distance to the sun) of \RMin~AU (astronomical units) has an excentricity \$\epsilon\$ of \$\frac{FOne}FTwo\$. What is its apohelion (in AU)? Calculate the value to one decimal.~(5 points)

□ \AMCnumericChoices{\RMax}{digits=3,decimals=1,sign=true,

D borderwidth=0pt,backgroundcol=white, exact=2, approx=5,

□ □ scoreexact=5, scoreapprox=3}

I \end{questionmultx}

}

12/06/2015 10:50 pm - Alexis Bienvenüe

Could you provide a minimal working example? I mean the _shortest possible_ source file that shows this problem.

12/08/2015 07:05 pm - Gerhard Blab

- File QuizTestMinimal.tbz2 added

Thank you for your quick response and for tackling this issue!

I have attached a three-question example. The value of a multiple-choice question (qMone) changes from 3 to 8 points depending on whether a second question is an interval (exams 1 and 2) or numChoice (exams 3 and 4) version. I do not think I can reduce it any further.

Alexis Bienvenüe wrote:

> Could you provide a minimal working example? I mean the _shortest possible_ source file that shows this problem.

12/08/2015 09:56 pm - Alexis Bienvenüe

In the definition of @mGInterval@, the @\scoring@ command should be called _inside_ the @question@ environment, otherwise this also applies to other questions.

12/09/2015 09:59 am - Gerhard Blab

Thank you, and apologies for the obvious mistake - I would not have found it in 100 years ... Merci!

Alexis Bienvenüe wrote:

> In the definition of @mGInterval@, the @\scoring@ command should be called _inside_ the @question@ environment, otherwise this also applies to other questions.

02/02/2016 07:48 am - Alexis Bienvenüe

- % Done changed from 0 to 100

- Status changed from New to Closed

Files			
source.tex	2.9 kB	12/04/2015	Gerhard Blab
minimal.tex	5.5 kB	12/04/2015	Gerhard Blab
DOC-sujet.pdf	297.6 kB	12/04/2015	Gerhard Blab
QuizTestMinimal.csv	395 Bytes	12/04/2015	Gerhard Blab
QuizTestMinimal.tbz2	281 kB	12/08/2015	Gerhard Blab