

CoCoA-5 - Feature #274

InputForm for output readable as input

14 Nov 2012 11:14 - Anna Maria Bigatti

Status:	In Progress	Start date:	20 Jun 2012
Priority:	Normal	Due date:	
Assignee:	Anna Maria Bigatti	% Done:	10%
Category:	CoCoA-5 function: new	Estimated time:	4.00 hours
Target version:	CoCoA-5.?.?	Spent time:	1.45 hour
Description			
Compare these			
<pre>/**/ Record[A := "dsjfhak\"kfdakh"]; Record[A := "dsjfhak\"kfdakh"] /**/ indent (It); Record[A := "dsjfhak"kfdakh"]</pre>			
John said in Mathematica the function InputForm prints something in a form that could be given as input. In this case printing a string in the definition of indent could be done with such a function. Apart from strings: would it really be useful?			
Related issues:			
Related to CoCoA-5 - Bug #192: indent prints strings without quotes		Closed	20 Jun 2012
Related to CoCoA-5 - Feature #18: Printing matrices: I/O unified style for Co...		Closed	02 Nov 2011
Related to CoCoA-5 - Design #483: Unique copies of rings in CoCoA-5		New	19 Mar 2014
Related to CoCoA-5 - Support #548: Printing rings with ID		Closed	06 May 2014

History

#1 - 14 Nov 2012 11:23 - Anna Maria Bigatti

- Tracker changed from Bug to Feature
- Subject changed from indent prints strings without quotes to InputForm for output readable as input
- Category changed from Incomplete function to CoCoA-5 function: new
- Target version changed from CoCoA-5.0.3 to 10
- Estimated time changed from 2.00 h to 4.00 h

#2 - 14 Nov 2012 11:31 - Anna Maria Bigatti

- % Done changed from 50 to 10

#3 - 14 Nov 2012 14:01 - John Abbott

We should probably avoid the name **InputForm**; in the past the people behind Mathematica have not hesitated to sue others (e.g. for using the names Sin, Cos and Tan -- with capital letters).

What should the command/function do? Should it behave much like **Print**, or should it be function which produces a string?

#4 - 11 Feb 2013 15:37 - Anna Maria Bigatti

- Target version changed from 10 to CoCoA-5.0.9

#5 - 02 Aug 2013 16:22 - Anna Maria Bigatti

- Target version changed from CoCoA-5.0.9 to CoCoA-5.1.0 Easter14

#6 - 19 Mar 2014 21:00 - John Abbott

Here are some thoughts about InputForm (or whatever it will be called):

- it could be a separate command or perhaps a modifier for Print;
- there is no special need for the output to "look nice" or be easily readable by people;
- making it "bullet-proof" could be very hard (*e.g.* see the example in [#18](#) post 3)

Here are some scenarios to consider: the output is valid input...

(A) (in the same CoCoA-5 session) when the current ring is the ring of the object printed

(B) (in the same CoCoA-5 session) regardless of the current ring

(C) in a different CoCoA-5 session regardless of all earlier computations, ring defns, etc

(D) in a brand new CoCoA-5 session

JAA thinks that achieving (C) and/or (D) could be difficult. (A) should be the minimum we offer, while (B) would be nice.

#7 - 04 Apr 2014 16:43 - John Abbott

- Target version changed from CoCoA-5.1.0 Easter14 to CoCoA-5.?.?