

CoCoA-5 - Design #1041

Separators for elements of a list

07 Apr 2017 22:19 - John Abbott

Status:	In Progress	Start date:	07 Apr 2017
Priority:	Normal	Due date:	
Assignee:		% Done:	10%
Category:	enhancing/improving	Estimated time:	0.00 hour
Target version:	CoCoA-5.4.2	Spent time:	0.75 hour
<p>Description</p> <p>Currently elements of a "list" are printed with comma-space-space between successive elements.</p> <p>The string defining this separator is written out several times:</p> <ul style="list-style-type: none">• VectorOperations.H• Interpreter.C• TmpF5Mat.C (twice)• ideal.C <p>Does it make sense for CoCoALib to offer a public string whose value is the separator used in CoCoALib between elements when printing lists? Discuss & decide!</p> <p>Note that elements in a matrix use a different separator!</p>			

History

#1 - 07 Apr 2017 22:21 - John Abbott

I have put this in the section CoCoA-5 even though the solution involves (possibly) modifying CoCoALib, because the problem becomes evident in CoCoA-5 (which should print its lists compatibly with those in CoCoALib).

I'm not sure about separators between elements in a matrix... :-/

#2 - 07 Apr 2017 22:24 - John Abbott

Here is an example involving a matrix:

```
>>> M := mat([[1,2],[3,4]]);
>>> M;
matrix(QQ,
  [[1, 2],
   [3, 4]])
>>> indent(GetRows(M));
[
  [1, 2],
  [3, 4]
]
```

#3 - 27 May 2021 10:50 - John Abbott

- *Target version changed from CoCoA-5.?.? to CoCoA-5.4.0*

I am not so sure about it being useful to allow a user to change the string.

However, it would be a good idea to have a single string (constant?) which contains the separator; rather than having the separator string being defined in several places.

It is also unclear whether entries in a matrix should be separated by the same string...

I would expect so, but apparently this is not the current situation.

#4 - 04 Nov 2021 20:31 - John Abbott

- *Target version changed from CoCoA-5.4.0 to CoCoA-5.4.2*

#5 - 04 Jan 2024 10:14 - John Abbott

- *Status changed from New to In Progress*

- *% Done changed from 0 to 10*

I still agree with my comments in note 3 above.

For matrices, there are really 2 separators: between elements in a row, and between rows.

Proposed action:

- gather all list element separators into a single constant somewhere (where?)
- put the matrix separators into two constants
- perhaps include cross-reference comments between the list separators & the matrix separators?