CoCoA-5 - Feature #331

Is it possible to have R^3 for NewFreeModule(R,3)?

15 Mar 2013 15:14 - Anna Maria Bigatti

Status:	Rejected	**Start date:**	15 Mar 2013
Priority:	Normal	**Due date:**	
Assignee:	Anna Maria Bigatti	**% Done:**	100%
Category:	CoCoA-5 function: new	**Estimated time:**	0.00 hour
Target version:	CoCoA-5.0.9	**Spent time:**	1.75 hour

Description		

Related issues:		
Related to CoCoALib - Design #305: FreeModule: unique copy?	**In Progress**	**12 Feb 2013**

History

#1 - 15 Mar 2013 16:52 - Anna Maria Bigatti

- Status changed from New to Rejected

- % Done changed from 0 to 100

The answer is yes.
I implemented all the code (in Interpreter.C: **opPower_Ring_BigInt** and **opPowerMap**), but the problem is that it makes it too easy to create **new** free modules, which will be all different!
So I commented the code and **R^3** is not available.

#2 - 15 Mar 2013 17:01 - John Abbott

The ring R could keep a list of freemodules based on itself, and R^3 then only needs to check whether it has already been created... This might be "awkward" for multithreaded applications which "create" repeatedly the same free module, otherwise I do not see any major problems.