

CoCoALib - Feature #1169

New function: RandomLinearForm (CoCoALib)

19 Mar 2018 09:49 - Anna Maria Bigatti

Status:	Closed	Start date:	19 Mar 2018
Priority:	Normal	Due date:	
Assignee:	Anna Maria Bigatti	% Done:	100%
Category:	New Function	Estimated time:	2.21 hours
Target version:	CoCoALib-0.99600	Spent time:	2.20 hours
Description			
Port RandomLinearForm to CoCoALib			
Related issues:			
Related to CoCoA-5 - Feature #1122: New fn: RandomLinearForm		Closed	15 Nov 2017
Related to CoCoALib - Bug #1208: New function: Threadsafe RandomLinearForm (...)		New	02 Aug 2018
Related to CoCoALib - Slug #1517: RandomLinearForm		Closed	23 Oct 2020

History

#1 - 19 Mar 2018 09:52 - Anna Maria Bigatti

- Status changed from New to Resolved
- % Done changed from 0 to 80
- Estimated time set to 2.01 h

Done.

RandomLinearForm(P) -- if coeff ring of P is F_p

RandomLinearForm(P, n) -- same as *RandomLinearForm(P, -n, n)*

RandomLinearForm(P, lo, hi) -- lo, hi integers

#2 - 19 Mar 2018 10:23 - Anna Maria Bigatti

- Related to Feature #1122: New fn: RandomLinearForm added

#3 - 19 Mar 2018 10:23 - Anna Maria Bigatti

- Subject changed from New function: RandomLinearForm to New function: RandomLinearForm (CoCoALib)

#4 - 19 Mar 2018 13:26 - John Abbott

I am not so convinced of the utility of *RandomLinearForm(P,lo,hi)*, and suggest commenting it out until we find a genuine need for it.

#5 - 19 Mar 2018 14:24 - Anna Maria Bigatti

John Abbott wrote:

I am not so convinced of the utility of *RandomLinearForm(P,lo,hi)*, and suggest commenting it out until we find a genuine need for it.

OK, I put it in anonymous namespace (it is used by the other two functions)

#6 - 16 May 2018 15:02 - John Abbott

I have added `RandomLinearForm` to documentation for `SparsePolyRing`.

Probably there should also be a version with interface: `RandomLinearForm(P, RndSeq)` where `RndSeq` is of type `RandomSeqLong` (or perhaps `RandomSeqBigInt`). What do you think?

#7 - 16 May 2018 15:48 - Anna Maria Bigatti

John Abbott wrote:

Probably there should also be a version with interface: `RandomLinearForm(P, RndSeq)` where `RndSeq` is of type `RandomSeqLong` (or perhaps `RandomSeqBigInt`). What do you think?

You are right. Should I do it?

#8 - 02 Aug 2018 16:59 - Anna Maria Bigatti

- Related to Bug #1208: New function: `Threadsafe RandomLinearForm (CoCoALib)` added

#9 - 02 Aug 2018 16:59 - Anna Maria Bigatti

- Status changed from *Resolved* to *Closed*

- % Done changed from 80 to 100

- Estimated time changed from 2.01 h to 2.21 h

`RandomLinearForm(P, RndSeq)` has been moved to its own new issue.

#10 - 23 Oct 2020 16:21 - John Abbott

- Related to Slug #1517: `RandomLinearForm` added