

CoCoALib - Design #1168

ideal: does const ourGetPtr really need to be private?

15 Mar 2018 10:10 - Anna Maria Bigatti

Status:	In Progress	Start date:	15 Mar 2018
Priority:	Normal	Due date:	
Assignee:		% Done:	40%
Category:	Data Structures	Estimated time:	8.00 hours
Target version:	CoCoALib-0.99900	Spent time:	5.50 hours
Description			
To be able to call this			
<pre>const SparsePolyRingBase::IdealImpl* const ptrI = SparsePolyRingBase::IdealImpl::ourGetPtr(I);</pre>			
many functions need to be //friend//. Can we make this public? Or is it too dangerous?			

History

#1 - 15 Mar 2018 14:12 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 10

If many functions have to be friend that is not a good sign.

I'm too busy to think about it now, so suggest making it public with a comment that this is makeshift solution that has to be properly considered at some point in the future.

#2 - 17 Mar 2018 09:15 - Anna Maria Bigatti

- % Done changed from 10 to 40

- Estimated time set to 8.00 h

After discussing with John, I made it public.

Indeed the rest of the code is clearer, i.e. we do not need so many friend functions, so the new files SparsePolyOps-ideal/involutive.H make take the heavy content of SparsePolyRing.H.

On the bad side, this exposes an implementation detail (the pointer) and this, says John, shows that the design is not quite correct.

#3 - 29 Mar 2018 23:03 - Anna Maria Bigatti

It is very convenient having it public :-)

... but today I used it to set the radical/maximal/... flags at the end of the function IdealOfPoints and I didn't need to make it friend.
Convenient, but dangerous.

#4 - 03 Jul 2023 17:49 - John Abbott

- Target version changed from CoCoALib-1.0 to CoCoALib-0.99850

#5 - 08 Mar 2024 17:26 - Anna Maria Bigatti

- Target version changed from CoCoALib-0.99850 to CoCoALib-0.99900