

CoCoALib - Feature #1797

Add a function CleanupGens making some easy cleaning on the generators?

18 Mar 2024 16:09 - Anna Maria Bigatti

Status:	New	Start date:	18 Mar 2024
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	New Function	Estimated time:	0.00 hour
Target version:	CoCoALib-0.99900	Spent time:	0.20 hour
Description			
In #1645#note-28 there is a list of easy checks one might want to do on a given set of polynomial generators. See also simplify in Singular https://www.singular.uni-kl.de/Manual/4-0-3/sing_394.htm			
Related issues:			
Related to CoCoALib - Design #1647: Suppress zero from ideal generators? Det...		Closed	20 Jan 2022
Related to CoCoALib - Design #1802: Tidying ideal generators (for non-polynom...		New	25 Mar 2024

History

#1 - 18 Mar 2024 18:36 - John Abbott

- Related to Design #1647: Suppress zero from ideal generators? Detect 1 and simplify generators? added

#2 - 18 Mar 2024 18:39 - John Abbott

In principle we could make 2 such functions: one faster, and one more thorough. But is it worth it? KISS?

#3 - 25 Mar 2024 19:14 - John Abbott

- Related to Design #1802: Tidying ideal generators (for non-polynomial ideals) added

#4 - 25 Mar 2024 19:16 - John Abbott

This might be a separate issue: should there also be a similar function which "prepares" the generators for computing the radical? The function could try to replace generators by their polynomial radicals, maybe reduce by monomials/binomials etc.