CoCoALib - Design #1802

Tidying ideal generators (for non-polynomial ideals)

25 Mar 2024 19:02 - John Abbott

Status:	New	**Start date:**	25 Mar 2024
Priority:	Normal	**Due date:**	
Assignee:		**% Done:**	0%
Category:	Improving	**Estimated time:**	0.00 hour
Target version:	CoCoALib-0.99900	**Spent time:**	0.20 hour

Description

Generalize the ideas of issue #1647 to other types of ideal (and modules?)

Related issues:

Related to CoCoALib - Design #1647: Suppress zero from ideal generators? Det...	**Closed**	**20 Jan 2022**
Related to CoCoALib - Feature #1797: Add a function CleanupGens making some e...	**New**	**18 Mar 2024**

History

#1 - 25 Mar 2024 19:02 - John Abbott

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

#2 - 25 Mar 2024 19:03 - John Abbott

- Subject changed from Tidying ideal geneators (for non-polynomial ideals) to Tidying ideal generators (for non-polynomial ideals)

#3 - 25 Mar 2024 19:05 - John Abbott

First steps:

- remove 0 generators
- if any generator is 1 (or invertible) then the ideal is 1
- for integer ideal, maybe compute (non-negative) gcd and use that as single generator.

Is there a sane generalization to modules?

#4 - 25 Mar 2024 19:14 - John Abbott

- Related to Feature #1797: Add a function CleanupGens making some easy cleaning on the generators? added