

CoCoA-5 - Bug #1610

IsInRadical: some more little bugs

27 Sep 2021 09:52 - Anna Maria Bigatti

Status:	Closed	Start date:	27 Sep 2021
Priority:	High	Due date:	
Assignee:	Anna Maria Bigatti	% Done:	100%
Category:	bug	Estimated time:	0.00 hour
Target version:	CoCoA-5.4.0	Spent time:	2.60 hours
Description I met some more bugs for extreme cases. Usually, after isolating them, the solution is trivial. List below.			
Related issues:			
Related to CoCoALib - Bug #1565: IsInRadical: gives "weird" error		Closed	19 Jan 2021
Related to CoCoALib - Slug #1569: IsInRadical too slow (test-RadicalMembership)		Closed	22 Jan 2021
Related to CoCoALib - Slug #1136: IsInRadical: sometimes a bit slow		Closed	06 Dec 2017
Related to CoCoA-5 - Bug #1032: IsInRadical: fragile code		Closed	17 Mar 2017
Related to CoCoALib - Feature #1030: IsInRadical: case of homog ideal		Closed	14 Mar 2017

History

#1 - 27 Sep 2021 09:52 - Anna Maria Bigatti

- Related to Bug #1565: IsInRadical: gives "weird" error added

#2 - 27 Sep 2021 09:52 - Anna Maria Bigatti

- Related to Slug #1569: IsInRadical too slow (test-RadicalMembership) added

#3 - 27 Sep 2021 09:53 - Anna Maria Bigatti

- Related to Slug #1136: IsInRadical: sometimes a bit slow added

#4 - 27 Sep 2021 09:53 - Anna Maria Bigatti

- Related to Bug #1032: IsInRadical: fragile code added

#5 - 27 Sep 2021 09:55 - Anna Maria Bigatti

Error if **GradingDim** is 0 (lex, elim, ...) for call to **IsHomog**. Now fixed.

#6 - 27 Sep 2021 09:57 - Anna Maria Bigatti

Error for

```
SetVerbosityLevel(90);  
use P := QQ[a,b, x,y]; X := [x,y];  
I:=ideal(a*x, b*x, a*y);  
CGS_I := CGSRecNabe(I,X, ElimXLex(2,2));
```

This makes sense only to me until I manage to isolate where the problem really is.

Gives Process cocoa5 segmentation fault: 11

#7 - 28 Sep 2021 16:48 - Anna Maria Bigatti

This seems to be the problem

```
IsInRadical (one (CurrentRing), ideal (CurrentRing, []));
```

I'm investigating.

#8 - 28 Sep 2021 17:48 - Anna Maria Bigatti

- *Status changed from In Progress to Feedback*

- *% Done changed from 10 to 90*

fixed. I didn't encounter other new bugs.
Updated test-exbugs

#9 - 10 Nov 2021 19:32 - John Abbott

Anna: can you close this issue?

#10 - 12 Nov 2021 09:48 - Anna Maria Bigatti

- *Status changed from Feedback to Closed*

- *% Done changed from 90 to 100*

No new bugs have surfaced. Closing this issue.

#11 - 15 Feb 2024 16:13 - Anna Maria Bigatti

- *Related to Feature #1030: IsInRadical: case of homog ideal added*