

## CoCoALib - Bug #1411

### IsPrimary sometimes wrong

03 Feb 2020 13:45 - John Abbott

<b>Status:</b>	Closed	<b>Start date:</b>	03 Feb 2020
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	John Abbott	<b>% Done:</b>	100%
<b>Category:</b>	Maths Bugs	<b>Estimated time:</b>	1.25 hour
<b>Target version:</b>	CoCoALib-0.99700	<b>Spent time:</b>	1.20 hour
<b>Description</b> The IsPrimary sometimes gives a wrong result.  Here is an instance:  <pre>p:=2; K:=ZZ/(p); Use R:=K[x,y]; J:=ideal(x^2, y^2 +y +1); IsPrimary(J); --&gt; incorrectly gives false</pre> Reported by email; simplified by Robbiano.			
<b>Related issues:</b>			
Related to CoCoALib - Design #1409: myTestIsPrimary & Co. : fix design		<b>Closed</b>	<b>03 Feb 2020</b>
Related to CoCoALib - Design #1409: myTestIsPrimary & Co. : fix design		<b>Closed</b>	<b>03 Feb 2020</b>

### History

#### #1 - 03 Feb 2020 14:43 - John Abbott

- Status changed from New to Resolved
- Assignee set to John Abbott
- % Done changed from 0 to 70
- Estimated time set to 1.50 h

I think it is OK now.

The problem was in SparsePolyOps-ideal-ZeroDim.C around line 295. The result was computed but not set by myAssignPrimaryFlag. Added the call to myAssignPrimaryFlag. Seems to work now.

#### #2 - 03 Feb 2020 15:40 - Anna Maria Bigatti

- Related to Design #1409: myTestIsPrimary & Co. : fix design added

#### #3 - 03 Feb 2020 15:40 - John Abbott

- Related to Design #1409: myTestIsPrimary & Co. : fix design added

#### #4 - 03 Feb 2020 15:42 - John Abbott

- Status changed from Resolved to Closed
- % Done changed from 70 to 100
- Estimated time changed from 1.50 h to 1.25 h

This was a duplicate of [#1409](#); server problems in Genoa meant I didn't know/notice that Anna had already resolved this.

Closing this issue; letting [#1409](#) deal with completion.