CoCoA-5 - Bug #186

LCM(0,x)

13 Jun 2012 00:43 - John Abbott

Status:	Closed	**Start date:**	13 Jun 2012
Priority:	Normal	**Due date:**	
Assignee:	John Abbott	**% Done:**	100%
Category:	Incomplete function	**Estimated time:**	2.00 hours
Target version:	CoCoA-5.0.3	**Spent time:**	3.50 hours

Description

```
Use QQ[x];
LCM(0,x);   --> type error :-(
LCM(x-x,x); --> WRONG ANSWER!!!
```

Bug reported by Giulia Bianco.
Fix, and update tests.
Might be a CoCoALib bug.

History

#1 - 14 Jun 2012 14:28 - John Abbott

- % Done changed from 0 to 70

Fixed the wrong result -- it was a bug in CoCoALib.
Fixed the type error (in Builtin.C) but fix is rather **ugly**.

Must update tests, and maybe doc.

Note gcd/lcm with a RAT will still give a type error; this is as we want!

#2 - 14 Jun 2012 16:55 - John Abbott

- Status changed from New to Closed

- % Done changed from 70 to 100

Added new test **test-RingElem1** which currently just does some simple sanity checks on gcd and lcm.

Cleaned up the doc for gcd/lcm.

Closing the issue despite the ugliness of the modification to Builtin.C.

#3 - 04 Jul 2012 09:57 - Anna Maria Bigatti

- Category set to Incomplete function

- Assignee set to John Abbott

- Target version set to CoCoA-5.0.3