# CoCoA-5 - Bug #1288

### len for RINGELEM ?!?

24 May 2019 16:22 - John Abbott

Status:ClosedStart date:24 May 2019Priority:HighDue date:Assignee:John Abbott% Done:100%Category:bugEstimated time:1.01 hour

Spent time:

1.00 hour

# **Description**

Target version:

I was surprised to discover that len can be applied to a RINGELEM.

CoCoA-5.3.0

f := x+1; len(f); 2

The manual says len can be applied only to STRING or LIST. (use NumTerms instead!)

#### History

#### #1 - 24 May 2019 16:25 - John Abbott

The manual entry for len looks a bit strange, and is hard to read. It says the fn signature is

len(E: STRING|LIST): INT

I think it would be clearer to write two separate signatures.

Also ?Commands and Functions for LIST does not list len; probably the automatic parser does not recognise the funny signature...

NOTE I have just modified the signature in my personal copy, and now len does appear in the list of fns for LIST.

## #2 - 24 May 2019 17:43 - John Abbott

The source code for the function len is in file BuiltinFunctions-CoCoALib.C around line 100.

The code recognises the types STRING, LIST, RINGELEM, MAT and MatrixRowValue.

The last two give helpful error messages, but for RINGELEM it calls NumTerms; surely this should also give a helpful error message?

#### #3 - 01 Oct 2019 14:14 - John Abbott

- Priority changed from Normal to High

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- Target version changed from CoCoA-5.3.0 to CoCoA-5.4.0

### #4 - 16 Oct 2019 22:15 - John Abbott

- Status changed from New to Feedback
- Assignee set to John Abbott
- Target version changed from CoCoA-5.4.0 to CoCoA-5.3.0
- % Done changed from 0 to 90

The CoCoA-5 manual page has already been fixed.

I have just modified BuiltinFunction-CoCoALib.C so that an error is given if len is applied to a RINGELEM (no check that the ringelem is from a poly ring). I had to change one lone in tests/anna.cocoa5, and now everything seems fine.

One could argue that len(RINGELEM) should be "obsolescent", but that would make things awfully complicated (possibly without much benefit).

## #5 - 22 Oct 2019 11:04 - Anna Maria Bigatti

- Status changed from Feedback to Closed
- % Done changed from 90 to 100

### #6 - 22 Oct 2019 11:04 - Anna Maria Bigatti

- Estimated time set to 1.01 h

### #7 - 13 Feb 2020 16:07 - Anna Maria Bigatti

- Description updated

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