

## CoCoA-5 - Bug #1622

### BuiltinOneLiners -- less precise location in error messages

18 Oct 2021 11:29 - John Abbott

<b>Status:</b>	New	<b>Start date:</b>	18 Oct 2021
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>	enhancing/improving	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	CoCoA-5.4.4	<b>Spent time:</b>	0.20 hour
<b>Description</b>			
I have noticed that error messages produced by fns which are defined in <b>BuiltinOneLiners</b> are less precise than those defined in <b>BuiltinFunctions-CoCoALib</b> . Less precise because they do not indicate which is bad arg; they simply indicate the whole fn call expression.  Can we find a way to make them more precise?			
<b>Related issues:</b>			
Related to CoCoA-5 - Support #1621: Doc for the various BuiltIn files		<b>New</b>	<b>18 Oct 2021</b>
Related to CoCoALib - Feature #743: Better errors: give supplementary info ab...		<b>In Progress</b>	<b>30 Jun 2015</b>

### History

#### #1 - 18 Oct 2021 11:30 - John Abbott

I have set the target version as 5.3.4, but this may be wildly optimistic.  
I fear that this request may be rather hard, or even impossible (without making **BuiltinOneLiners** much more complicated).

#### #2 - 18 Oct 2021 11:30 - John Abbott

- Related to Support #1621: Doc for the various BuiltIn files added

#### #3 - 18 Oct 2021 11:33 - John Abbott

Here is an example of what I mean:

```
/**/ pi := 3.14159;
/**/ CFAprox(pi,2);
--> ERROR: Expecting type RAT, but found type INT
--> CFAprox(pi,2);
-->          ^
/**/ CFAprox(pi,3/2);
--> ERROR: The arg(s) given are unsuitable
--> [CoCoALib] CFAprox: relative error must be between 0 and 1
--> CFAprox(pi,3/2);
--> ^^^^^^^^^^^^^^^^^^^
```

The 2nd arg must be a rational between 0 and 1. In the first case the troublesome arg is identified; in the second just the whole call is highlighted.

**#4 - 12 Nov 2021 11:05 - John Abbott**

- Subject changed from *BuiltInOneLiners* to *BuiltInOneLiners* -- less precise location in error messages

**#5 - 19 Nov 2021 17:02 - Anna Maria Bigatti**

I believe that the error must be clear enough in CoCoALib so that there is no need to intercept (all??) situations like this.

**#6 - 19 Nov 2021 17:03 - Anna Maria Bigatti**

- Related to Feature #743: *Better errors: give supplementary info about the error added*

**#7 - 03 Feb 2022 19:55 - John Abbott**

- Target version changed from *CoCoA-5.4.0* to *CoCoA-5.4.2*

**#8 - 18 Mar 2024 21:16 - John Abbott**

- Target version changed from *CoCoA-5.4.2* to *CoCoA-5.4.4*