

CoCoA-5 - Bug #1622

BuiltinOneLiners -- less precise location in error messages

18 Oct 2021 11:29 - John Abbott

Status:	New	Start date:	18 Oct 2021
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	enhancing/improving	Estimated time:	0.00 hour
Target version:	CoCoA-5.4.4	Spent time:	0.20 hour
Description I have noticed that error messages produced by fns which are defined in BuiltinOneLiners are less precise than those defined in BuiltinFunctions-CoCoALib . 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?			
Related issues:			
Related to CoCoA-5 - Support #1621: Doc for the various Builtin files		New	18 Oct 2021
Related to CoCoALib - Feature #743: Better errors: give supplementary info ab...		In Progress	30 Jun 2015

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