

CoCoALib - Bug #1026

JanetBasis gives error indet index out of range

08 Mar 2017 15:24 - John Abbott

Status:	New	Start date:	08 Mar 2017
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Maths Bugs	Estimated time:	0.00 hour
Target version:	CoCoALib-1.0	Spent time:	0.25 hour
Description			
The following input gives an error:			
<pre>use QQ[x,y,z],lex; I := ideal(-x^2*y -x +z^3, -x^2*y +x^2*z +y^2, x^3 +y^3); JB := JanetBasis(I); --&gt; ERROR: Indeterminate index out of range</pre>			
It works fine if I do not specify lex ordering.			

History

#1 - 08 Mar 2017 15:26 - John Abbott

There is a certain irony in finding this problem just 5 minutes after Mario left for good...

Is the implementation not valid for lex ordering? If that is the case, then a better error message should be produced.

**NOTE** this input generators are ones which give large coeffs during the computation of a lex Gbasis (even though the final result is not that horrible -- see issue [#1025](#)).