# CoCoALib - Design #1059

## Printing ring for ideals (or just for ideals 0 and 1)

05 May 2017 14:31 - Anna Maria Bigatti

Status:	New	Start date:	05 May 2017
Priority:	Normal	Due date:	
Assignee:		% Done:	10%
Category:	Improving	Estimated time:	3.00 hours
Target version:	CoCoALib-1.0	Spent time:	0.40 hour
Description			
Printing out an ideal gives no indication of the ring: ideal()			

For matrices we now write matrix(/\* ring description \*/ [...])

In particular I find that ideal(), ideal(0) and ideal(1) are a bit misleading and seem independent of a ring.

I suggest adding the ring as for the matrix in these three cases.

I don't think it is important to do this for ideal(0,1,1,1,0,0,1) (perverse?)

### History

#### #1 - 05 May 2017 16:00 - John Abbott

I am not (yet?) convinced that this is the right thing to do, partly because I think it could easily make it (even) harder to comprehend the printed form of the ideal.

You can always find out to which ring the ideal belongs by computing RingOf(I).

ADDENDUM why only for ideals 0 and 1? If I have several rings containing x then I do not know to which ring ideal(x) belongs...

### #2 - 05 May 2017 16:58 - Anna Maria Bigatti

- Subject changed from Printing ideals 0 and 1 to Printing ring for ideals (or just for ideals 0 and 1)

- % Done changed from 0 to 10

Maybe we could add the ring anyway when we do indent(I)

JAA simultaneously wrote the following: Anna suggested adapting indent so that it does print out the ring, but leaving normal printing without giving the ring explicitly.

I wonder how often it happens that someone creates an ideal without knowing to which ring it belongs; an example of this could be GroebnerFanldeals.