CoCoA-5 - Feature #1285

New Fn: make a homogeneous list of ringelem

23 May 2019 11:30 - John Abbott

Status:	New	**Start date:**	23 May 2019
Priority:	Normal	**Due date:**	
Assignee:		**% Done:**	0%
Category:	CoCoA-5 function: new	**Estimated time:**	0.00 hour
Target version:	CoCoA-5.?.?	**Spent time:**	0.20 hour

Description

Proposal: create a new function which takes a ring and a list, and returns a list of RINGELEM belonging to the specified ring.

```
R ::= QQ[x,y];
L := [x,0,1,y];
HomogList(R, L);
[x,0,1,y] -- but all as elements in R
-- Perhaps also
HomogList(R, [x, LC(x)]);
[x,1]
```

History

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What exactly should the function do? What should it be called?

- **(A)** simplest is to accept RINGELEM and INT and RAT and map them into the given ring (by calling pseudo-ctor?)
- **(B)** give error if there are @RINGELEM@s which are in the wrong ring?
- **(C)** other ideas?

```
define ListOfRingElem(R, L)
  return [RingElem(R,x) | x in L];
enddefine;
```

Florian would also like a similar function which eliminates zeroes...