# CoCoALib - Design #1767

# Finalize design for ideals in CoCoALib

31 Oct 2023 11:19 - Anna Maria Bigatti

Status:	In Progress	Start date:	31 Oct 2023		
Priority:	Normal	Due date:			
Assignee:		% Done:	10%		
Category:	Data Structures	Estimated time:	0.00 hour		
Target version:	CoCoALib-0.99900	Spent time:	0.20 hour	0.20 hour	
Description					
Some functions for ideals are internally implemented changing the given ideal and returning void: myAdd, myMul, myElim,					
For these functions I think we should instead have 2 arguments and return an ideal. I cannot imagine (but I might be wrong) a case in which we actually want to <b>modify</b> the ideal and destroy the original.					
Related issues:					
Related to CoCoALib - Design #871: Redesign ideals			New	26 Apr 2016	
Related to CoCoALib - Design #1326: Modify function myElim so that it returns			Closed	03 Oct 2019	

#### History

### #1 - 31 Oct 2023 11:19 - Anna Maria Bigatti

- Related to Design #871: Redesign ideals added

### #2 - 04 Jan 2024 10:18 - John Abbott

Also for *exception cleanliness*, an operation such as I += J would almost certainly have to compute a temporary ideal containing I+J, and then if that succeeds, swap it into the correct place. This means that there no benefit in offering a low-level implementation for +=.

Can we change the implementation quickly & easily?

## #3 - 15 Jan 2024 19:25 - John Abbott

- Target version changed from CoCoALib-0.99800 to CoCoALib-0.99850

#### #4 - 08 Mar 2024 17:26 - John Abbott

- Target version changed from CoCoALib-0.99850 to CoCoALib-0.99900

### #5 - 15 Mar 2024 16:50 - Anna Maria Bigatti

- Related to Design #1326: Modify function myElim so that it returns ideal? (not quite) added