## CoCoALib

	2019-2			2019-3				2019-4					2019-5					2019-6				2019-7					
		6 7	8	B	9	10	11	12	13	14	15	16	17	18	19	9 20	) 2	1 2	2	23	24	25	26	27	28	29	30
CoCoA									•	-					-												•
CoCoALib		CoCo	ALil	b																							
MinPolyQuot not documented																											
New function IsInSymbols																											
CoCoALib releases on redmine																											
CoCoALib - CoCoALib-0.99850																											
Release CoCoALib 0.99850																											
CoCoALib - CoCoALib-0.99880																											
Matrix equation solving; linear () Improve threadsafety																											
Matrix equation solving: LinKer																											
Printing polynomials - spaces between ()																											
Play with GIT																											
Error: ERR::NotNonZero instead ()																											
Elim(vector <long>) as PPOrderingCtor</long>																											
Syzygy for modules: non-homogeneous ()																											
Error codes: use same code for ()																											
LongRange: in which file should ()																											
Impl small non-prime finite fields ()																											
DistrMPolyClean does not use MemPool ()																											
MatrixOrderingMod32749Impl: test ()																											
Update normaliz interface?																											
Better errors: give supplementary ()																											
SLUG: elimination																											
Test whether a symbol is in a ring																											
DivMask: extend interface?																											
Implement "elim" in CoCoALib																											
Cleanup MinPoly code																											

implicit, ImplicitHypersurface: ()	
Redesign ideals	
LinSolve for matrices over FFp	
strict enum types: C++11 extension	
New function: cardinality of finite ()	
FlagManager for bool/bool3 flags	
MachineInt or long for args which ()	
Separate configure scripts for ()	
MachineInt: change semantics?	
IsRadical for ideal?	
New function: multiplicity and ()	
Improve saturate	
Slug: Polynomial ring contructor ()	
Revive code for SelfSaturating ()	
SLUG: factorization of x^9999	
Separate install script for CoCoALib?	
Canonical homomorphism for (some) ()	
interval arithmetic	
Clean up SparsePolyOps-MonomialIdeals	
Naming convention mistakes	
IsZeroDet: new fn	
New function: SubmoduleOfGBasis	
Frobby version number	
factor SEGV too large characteristic	
C++14: Use type auto where appropriate	
New function: MinPoly for pseudo-zero-dimens	ional ()
Ideals with trivial GBasis	
Tidy CoCoALib test directory	
Determinant & Inverse of matrix ()	
Factor of multivariate sometimes ()	
exgcd over integers (ZZ)	
PrimaryDecomposition: a interesting/patholog	cal ()
C++14: use the new for loop syntax ()	
ideal ctor where given gens are ()	

TmpLDP uses srand and time
RingID counter increased inside ()
Type ideal for ZZ[x[1n]]
GlobalManager: create SignalWatcher ()
Oddly slow GBasis computation (slow ()
Make class RingElemVector?
RadicalZeroDim with extra parameter ()
Remove flag IhaveGBasisValue?
DenseMatrix: use template impl ()
HNF: Hermite Normal Form
Start using C++14 "move" capability
What is the difference between ()
mul(MAT,MAT,MAT)
Simple syntax for making a quotient ()
Doc for normaliz fns
Documentation for SparsePolyOps?
Better test for univariate-ness ()
Unexpectedly slow example with ()
gfan does not "deinitialize"
Default ctor for rings
Doc for module term orderings
matrix.H and MatrixView.H
ker_H needs care
Use noexcept
DynamicBitset missing arg checks
cmp for machine integers
Detect updated versions of external ()
Clean time.C
Documentation for PrimaryDecomposition
Unused variables, params, data ()
NR for polys with coeffs in PID
interreduce: make monic if over ()
rref slower than expected (maybe) ()
Improve CertifyNotPower

txt2tags: problem with filenames ()
geobucket: documentation
Compilation on Windows: problems ()
GBasis over ZZ: port to CoCoALib
Generalize prim
Review File subtree hierarchy
Build also dynamic/shared library ()
Review examples
release-source script: use shell ()
Unsigned long for indexes (& sizes?)
IsIrred in ZZ[x,y]
RingBase::mySwap needed?
Shell scripts: Shebang line, etc
Threadsafety, multithreading: optional ()
Symlink directory for external ()
ProgressReporter: prepare for new ()
Development releases?
ProductBigInt (also ProductBigRat???)
DivAlg in CoCoALib
Cruft in ExtLibs-Normaliz.C
ApplySPRCodomain: relax power/exponent (
FactorINT: funny order
Clean TmpGOperations, and remove ()
Homogenization of an ideal with ()
Suggestion about Graded polynomial ()
MinGens gives non minimal gens ()
MinGens could be faster
Implement Truncated GBases for ()
Implement GBMill (aka Groebner ()
July 2023
IdealOfPoints: allow duplicate ()
deg(f) is slow if f is long
gcd(f,f) is slow
Verbosity messages: avoid printing ()
, , , , , , , , , , , , , , , , , , , ,

	VerificationLevel: just 3? Low, ()
	Homogenizer
	Make CoCoALib test file for radical
	Iterator design: compatible with ()
	CpuTimeOut: arg of type ErrorContext?
	Use ErrorContext instead of string ()
	myFinalizeGBasis ("Final clean ()
	Computing in sub polyring
	Conversion from SmallPrime to UNSIGNED (
	BuildInfo
	Error codes: "Not" for "blah ()
	New constructor for PolyRing with ()
	Make ex-syz.C
	Check include guards
	Documentation: indexXX.html should ()
(	CoCoALib - CoCoALib-0.99900
	Redmine Administration
	Design new errors using inheritance
	Which names to use? Intersection/saturation
	New function: IdealWithIncrementalGBasis(I, (
	Documentation: translation table
	New class: exterior algebra
	ideal: does const ourGetPtr really ()
	Create PolyOps-RingElem?
	Move to C++14 (skipping C++11)
	subresultant
	HilbertDriven Buchberger Algorithm
	Filling matrix row/col from a vector
	GFan: port CoCoA_5 functions into ()
	Adjoin indets to a poly ring
	Get indexed indets from a polyring
	Idea for for loops
	Extended rationals: PlusInfinity ()
	submat of a submat

SLUG: Printing PPs with many indets	
Convenient RingHom pseudo-ctors	
Factorization in K(a,b)[x,y]	
ElimMat is slow	
Sparse matrix (SparseMat)	
Coding guidelines	
Signal handler not portable?	
Intersection of Ideals: has GBasis?	
Implement monic0(f) for the case () Add LM to cocoalib ?	
MachineInt: chase through ULL ()	
Documentation: a good model to ()	
swap for new classes	
Random and threadsafe?	
Suggestion: Add "JumpTo" function ()	
Use C++ attributes	
Finalize design for ideals in CoCoALib	
Code & doc structure: one-big-file ()	
Add flag IhaveHomogGensValue ()	
Add function IsHomog3(I)?	
Add new function for IsInRadical ()	
Add a function CleanupGens making ()	
Tidying ideal generators (for non-polynomial (.	)
Improve trivial operations with ()	
Use long long (at least sometimes)?	
Release CoCoALib 0.99900	
Some tests have become slower	
Ensure tests do not need too much ()	
JSON and UUID	
CoCoALib - CoCoALib-1.0	
Sort out RingElem, RefRingElem, ()	
List of all functions in CoCoALib	
printing polynomials	
keywords in documentation	

Cleanup header for ring classes () Error Codes automatic creation of all function () Introduce PartialHom Ideals of polynomials LT over QQ: surprisingly slow IdealOfPoints with generic coeffs New datastructures directory Convert DUPFF code to C++ Better GCD Design problem in ideals Convenience ring ctors and homs Buchberger-Moeller (parent task) Buchberger-Moeller: impl via () Buchberger-Moeller: impl via () Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations Eliminate class RefPPMonoidElem?</matrix>	
automatic creation of all function () Introduce PartialHom Ideals of polynomials LT over QQ: surprisingly slow IdealOfPoints with generic coeffs New datastructures directory Convert DUPFF code to C++ Better GCD Design problem in ideals Convenience ring ctors and homs Buchberger-Moeller (parent task) Buchberger-Moeller: fast modular () Buchberger-Moeller: inpl via () Buchberger-Moeller: inpl via () Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry ()</matrix>	Cleanup header for ring classes ()
Introduce PartialHom Ideals of polynomials LT over QQ: surprisingly slow IdealOfPoints with generic coeffs New datastructures directory Convert DUPFF code to C++ Better GCD Design problem in ideals Convenience ring ctors and homs Buchberger-Moeller (parent task) Buchberger-Moeller: fast modular () Buchberger-Moeller: impl via () Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry ()</matrix>	Error Codes
Ideals of polynomials LT over QQ: surprisingly slow IdealOfPoints with generic coeffs New datastructures directory Convert DUPFF code to C++ Better GCD Design problem in ideals Convenience ring ctors and homs Buchberger-Moeller (parent task) Buchberger-Moeller: fast modular () Buchberger-Moeller: impl via () Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry ()</matrix>	automatic creation of all function ()
LT over QQ: surprisingly slow IdealOfPoints with generic coeffs New datastructures directory Convert DUPFF code to C++ Better GCD Design problem in ideals Convenience ring ctors and homs Buchberger-Moeller (parent task) Buchberger-Moeller: fast modular () Buchberger-Moeller: impl via () Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	Introduce PartialHom
IdealOfPoints with generic coeffs New datastructures directory Convert DUPFF code to C++ Better GCD Design problem in ideals Convenience ring ctors and homs Buchberger-Moeller (parent task) Buchberger-Moeller: fast modular () Buchberger-Moeller: inpl via () Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	Ideals of polynomials
New datastructures directory Convert DUPFF code to C++ Better GCD Design problem in ideals Convenience ring ctors and homs Buchberger-Moeller (parent task) Buchberger-Moeller: fast modular () Buchberger-Moeller: inpl via () Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	LT over QQ: surprisingly slow
Convert DUPFF code to C++ Better GCD Design problem in ideals Convenience ring ctors and homs Buchberger-Moeller (parent task) Buchberger-Moeller: fast modular () Buchberger-Moeller: impl via () Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	IdealOfPoints with generic coeffs
<ul> <li>Better GCD</li> <li>Design problem in ideals</li> <li>Convenience ring ctors and homs</li> <li>Buchberger-Moeller (parent task)</li> <li>Buchberger-Moeller: fast modular ()</li> <li>Buchberger-Moeller: inpl via ()</li> <li>Buchberger-Moeller: input conversions</li> <li>Makefile dependencies</li> <li>RingOf rather than owner? (and ()</li> <li>Iterated CanonicalHom</li> <li>GCD normalization (e.g. monic)</li> <li>Convert old "task table" into redmine</li> <li>IsStdGraded: add for PPOrdering, ()</li> <li>PPWithMask needs checking</li> <li>Example for change of coordinates ()</li> <li>HilbertBasis from Normaliz: full-lattice ()</li> <li>Generator for random ring elements</li> <li>Documentation for QBGenerator needs ()</li> <li>No test for QBGenerator</li> <li>Approx QIR</li> <li>Transcribe C4 code for GCD in QQ[x]</li> <li>Multivariate lifting</li> <li>Move the various <matrix>::mySetEntry ()</matrix></li> <li>Forward declarations</li> </ul>	New datastructures directory
Design problem in ideals Convenience ring ctors and homs Buchberger-Moeller (parent task) Buchberger-Moeller: fast modular () Buchberger-Moeller: input via () Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	Convert DUPFF code to C++
Convenience ring ctors and homs Buchberger-Moeller (parent task) Buchberger-Moeller: fast modular () Buchberger-Moeller: impl via () Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	Better GCD
<ul> <li>Buchberger-Moeller (parent task)</li> <li>Buchberger-Moeller: fast modular ()</li> <li>Buchberger-Moeller: impl via ()</li> <li>Buchberger-Moeller: input conversions</li> <li>Makefile dependencies</li> <li>RingOf rather than owner? (and ()</li> <li>Iterated CanonicalHom</li> <li>GCD normalization (e.g. monic)</li> <li>Convert old "task table" into redmine</li> <li>IsStdGraded: add for PPOrdering, ()</li> <li>PPWithMask needs checking</li> <li>Example for change of coordinates ()</li> <li>HilbertBasis from Normaliz: full-lattice ()</li> <li>Generator for random ring elements</li> <li>Documentation for QBGenerator needs ()</li> <li>No test for QBGenerator</li> <li>Approx QIR</li> <li>Transcribe C4 code for GCD in QQ[x]</li> <li>Multivariate lifting</li> <li>Move the various <matrix>::mySetEntry ()</matrix></li> <li>Forward declarations</li> </ul>	Design problem in ideals
<ul> <li>Buchberger-Moeller (parent task)</li> <li>Buchberger-Moeller: fast modular ()</li> <li>Buchberger-Moeller: input conversions</li> <li>Makefile dependencies</li> <li>RingOf rather than owner? (and ()</li> <li>Iterated CanonicalHom</li> <li>GCD normalization (e.g. monic)</li> <li>Convert old "task table" into redmine</li> <li>IsStdGraded: add for PPOrdering, ()</li> <li>PPWithMask needs checking</li> <li>Example for change of coordinates ()</li> <li>HilbertBasis from Normaliz: full-lattice ()</li> <li>Generator for random ring elements</li> <li>Documentation for QBGenerator needs ()</li> <li>No test for QBGenerator</li> <li>Approx QIR</li> <li>Transcribe C4 code for GCD in QQ[x]</li> <li>Multivariate lifting</li> <li>Move the various <matrix>::mySetEntry ()</matrix></li> <li>Forward declarations</li> </ul>	Convenience ring ctors and homs
Buchberger-Moeller: fast modular ()Buchberger-Moeller: impl via ()Buchberger-Moeller: input conversionsMakefile dependenciesRingOf rather than owner? (and ()Iterated CanonicalHomGCD normalization (e.g. monic)Convert old "task table" into redmineIsStdGraded: add for PPOrdering, ()PPWithMask needs checkingExample for change of coordinates ()HilbertBasis from Normaliz: full-lattice ()Generator for random ring elementsDocumentation for QBGenerator needs ()No test for QBGeneratorApprox QIRTranscribe C4 code for GCD in QQ[x]Multivariate liftingMove the various <matrix>::mySetEntry ()Forward declarations</matrix>	-
Buchberger-Moeller: impl via () Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
Buchberger-Moeller: input conversions Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
Makefile dependencies RingOf rather than owner? (and () Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
RingOf rather than owner? (and ()Iterated CanonicalHomGCD normalization (e.g. monic)Convert old "task table" into redmineIsStdGraded: add for PPOrdering, ()PPWithMask needs checkingExample for change of coordinates ()HilbertBasis from Normaliz: full-lattice ()Generator for random ring elementsDocumentation for QBGenerator needs ()No test for QBGeneratorApprox QIRTranscribe C4 code for GCD in QQ[x]Multivariate liftingMove the various <matrix>::mySetEntry ()Forward declarations</matrix>	
Iterated CanonicalHom GCD normalization (e.g. monic) Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	RingOf rather than owner? (and ()
Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
Convert old "task table" into redmine IsStdGraded: add for PPOrdering, () PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	GCD normalization (e.g. monic)
PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
PPWithMask needs checking Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	IsStdGraded: add for PPOrdering, ()
Example for change of coordinates () HilbertBasis from Normaliz: full-lattice () Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
<ul> <li>HilbertBasis from Normaliz: full-lattice ()</li> <li>Generator for random ring elements</li> <li>Documentation for QBGenerator needs ()</li> <li>No test for QBGenerator</li> <li>Approx QIR</li> <li>Transcribe C4 code for GCD in QQ[x]</li> <li>Multivariate lifting</li> <li>Move the various <matrix>::mySetEntry ()</matrix></li> <li>Forward declarations</li> </ul>	-
Generator for random ring elements Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
Documentation for QBGenerator needs () No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
No test for QBGenerator Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
Approx QIR Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
Transcribe C4 code for GCD in QQ[x] Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
Multivariate lifting Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
Move the various <matrix>::mySetEntry () Forward declarations</matrix>	
Forward declarations	-
Eliminate class RefPPMonoidElem?	
	Eliminate class RefPPMonoidElem?

Store unique copy of FF(p) in GlobalManager	
Global setting: to use IsProbPrime ()	
PrimeField new fn?	
Modules design: brainstorming	
Compilation on M\$Windows: Visual ()	
FreeModule: unique copy?	
Add doc for ApproxPts2	
submodule constructor different ()	
C++ nasty surprises	
Why is DMPI slower than DMPClean?	
Module homs	
Missing documentation and tests ()	
CoCoAServer: what future, what ()	
Resolution/morse: integrate Mario ()	
add resolution data type	
implement algorithm(s) for resolutions	
PPMonoidElemAlias: redesign PPMonoidElem	()
add myHilbertSeries member field ()	
add myJBMill member field to ideal	
NewFreeModule of dimension 0	
Minimal syzygies (optimized implementation)	
Allow user to give a name to a ()	
Error names and error messages ()	
Semantics of IsPrintedWithMinus	
Improve UPoly eval at BigRat for ()	
MemPool: order free blocks?	
Polynomial multiplication (product ()	
Port RealRoots to C++	
Eigenvectors	
Which sets of generators in an ()	
LinearSimplify: port to CoCoALib	
Unique copies of rings smart ()	
Clang: automatic bug finding	
Documentation: write doc for RingDenseUPoly	Clean

Quick/correct flag for bool3 fns
Fn to "flatten" muliple polynomial ()
Make squarefreefactor work in multiple ()
FloatStr uses too much memory
Functions to clean up a factorization
elim using RingTwinFloat triggers ()
add myResolution member field ()
Reconsider overloaded virtual mem ()
Subrings
Temporary file for experimentation
FloatApprox for TwinFloat values?
Documentation for ReductionCog
Allow use of RingElem instead of ()
Split SparsePolyRing.H into two ()
Investigate using cmake for configuration
New function for printing with ()
Implement gin (generic initial ()
Problem with template instantiation ()
configure: check all libraries ()
Redesign CRTMill
Wikipedia
Gaussian integer and rationals ()
Complex twin-floats
Shadow CoCoA namespace to help ()
What is test-Dynamic1.C
Buchberger-Moeller: add option ()
Unique copies of free modules?
Optimized algorithms for implicitization ()
Laurent polynomials
Integrate Janet/Pommaret basis ()
factor: multivariate + finite characteristic
Matrix determinant over multivariate ()
Credits to CoCoALib contributors
Accumulator (like a geobucket)
 · - ·

MemPool: make it easier to get ()
PPMonoid: add fn to check for overflow ()
Use DivMask inside QBGenerator
myAddMul in poly rings
PolyAlgebraHom (PolyRingHom) evaluate ()
Fault tolerant rational reconstruction: ()
Remove cruft from test files
Add more operations between modules ()
Example database: Slow ideal equality ()
Noncommutative algebra "of solvable ()
Betti numbers, betti diagram
Extend homomorphism to polynomial ()
Addition of sparse (multivariate) ()
View PP exponent vector (and order ()
Problem with GBasis in tower of ()
Investigate using Boost.build instead ()
configure: have option to say to ()
GlobalManager: initialization compatible ()
ExternalLib-CDD: (needed by GFan)
CoCoALib cone
PPMonoid with 1 extra "exponent"?
CRTMill::myAddInfo accept modulus ()
Makefile: problem not seeing when ()
GroebnerFan/ExternalLib-GFan: improve ()
threadsafety: Scott Meyers's advice ()
finite fields: global register ()
Remove refcounts from RingElem?
No doc for DistrMPolyInIFpPP
Clean code for DistrMPolyClean
SmallFpImpI: make it faster
vector of "indets" in each PPMonoid?
PPOrdering: use it to compute WDeg?
Alg Extn by non-zero dim ideal
FastCmp for degree useful?

<ul> <li>PPMonoid pseudo-ctor without explicit () GenRepr in CoCoALib?</li> <li>F5 with 3 args?</li> <li>Sparse matrices</li> <li>MachineInt: function for checking () Generalize grading matrix</li> <li>UIBC: need include file in RingWeyI.C</li> <li>Make Mario's new code threadsafe factor is very slow on some simple ()</li> <li>Differential algebra</li> <li>SparsePolyIter: make more compatible ()</li> <li>GINV: alex basis</li> <li>NewPolyRing: tidy up the many different ()</li> <li>PPMonoidSparse: comparisons are ()</li> <li>IsIrred: correct design?</li> <li>SmallFpImpl: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>F5 with 3 args?</li> <li>Sparse matrices</li> <li>Machinelnt: function for checking ()</li> <li>Generalize grading matrix</li> <li>UIBC: need include file in RingWeyI.C</li> <li>Make Mario's new code threadsafe</li> <li>factor is very slow on some simple ()</li> <li>Differential algebra</li> <li>SparsePolylter: make more compatible ()</li> <li>GINV: alex basis</li> <li>NewPolyRing: tidy up the many different ()</li> <li>PPMonoidSparse: comparisons are ()</li> <li>IsIrred: correct design?</li> <li>SmallFpImpI: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>Sparse matrices</li> <li>Machinelnt: function for checking ()</li> <li>Generalize grading matrix</li> <li>UIBC: need include file in RingWeyI.C</li> <li>Make Mario's new code threadsafe</li> <li>factor is very slow on some simple ()</li> <li>Differential algebra</li> <li>SparsePolylter: make more compatible ()</li> <li>GINV: alex basis</li> <li>NewPolyRing: tidy up the many different ()</li> <li>PPMonoidSparse: comparisons are ()</li> <li>IsIrred: correct design?</li> <li>SmallFpImpl: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>Machinelnt: function for checking () Generalize grading matrix</li> <li>UIBC: need include file in RingWeyl.C</li> <li>Make Mario's new code threadsafe factor is very slow on some simple ()</li> <li>Differential algebra</li> <li>SparsePolyIter: make more compatible ()</li> <li>GINV: alex basis</li> <li>NewPolyRing: tidy up the many different ()</li> <li>PPMonoidSparse: comparisons are ()</li> <li>IsIrred: correct design?</li> <li>SmallFpImpl: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
Generalize grading matrix UIBC: need include file in RingWeyl.C Make Mario's new code threadsafe factor is very slow on some simple () Differential algebra SparsePolyIter: make more compatible () GINV: alex basis NewPolyRing: tidy up the many different () PPMonoidSparse: comparisons are () IsIrred: correct design? SmallFpImpl: different repr for () bool3: add some logical operations? factor: too slow on largish multivariate () Impl faster multiplication for () DistrMPolyInIPP::myPushFront and () IsIrred3: fast 3-way irred test () myIsEqual, myCmp: direct comparisons () SmallFpDouble: which impl of InvMod () External libraries: keep copy of () Read input from SymbolicData database New function: quorem for univariate () Hilbert Driven GBasis Design GBMill Fn to read symbol range (SymbolRange)
<ul> <li>UIBC: need include file in RingWeyl.C</li> <li>Make Mario's new code threadsafe</li> <li>factor is very slow on some simple ()</li> <li>Differential algebra</li> <li>SparsePolylter: make more compatible ()</li> <li>GINV: alex basis</li> <li>NewPolyRing: tidy up the many different ()</li> <li>PPMonoidSparse: comparisons are ()</li> <li>IsIrred: correct design?</li> <li>SmallFplmpl: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>Make Mario's new code threadsafe</li> <li>factor is very slow on some simple ()</li> <li>Differential algebra</li> <li>SparsePolylter: make more compatible ()</li> <li>GINV: alex basis</li> <li>NewPolyRing: tidy up the many different ()</li> <li>PPMonoidSparse: comparisons are ()</li> <li>IsIrred: correct design?</li> <li>SmallFpImpl: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>factor is very slow on some simple ()</li> <li>Differential algebra</li> <li>SparsePolylter: make more compatible ()</li> <li>GINV: alex basis</li> <li>NewPolyRing: tidy up the many different ()</li> <li>PPMonoidSparse: comparisons are ()</li> <li>Islrred: correct design?</li> <li>SmallFpImpl: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>Islrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>Differential algebra</li> <li>SparsePolylter: make more compatible ()</li> <li>GINV: alex basis</li> <li>NewPolyRing: tidy up the many different ()</li> <li>PPMonoidSparse: comparisons are ()</li> <li>IsIrred: correct design?</li> <li>SmallFpImpl: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>SparsePolylter: make more compatible ()</li> <li>GINV: alex basis</li> <li>NewPolyRing: tidy up the many different ()</li> <li>PPMonoidSparse: comparisons are ()</li> <li>IsIrred: correct design?</li> <li>SmallFpImpl: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>GINV: alex basis</li> <li>NewPolyRing: tidy up the many different ()</li> <li>PPMonoidSparse: comparisons are ()</li> <li>IsIrred: correct design?</li> <li>SmallFpImpI: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
NewPolyRing: tidy up the many different () PPMonoidSparse: comparisons are () IsIrred: correct design? SmallFpImpl: different repr for () bool3: add some logical operations? factor: too slow on largish multivariate () Impl faster multiplication for () DistrMPolyInIPP::myPushFront and () IsIrred3: fast 3-way irred test () myIsEqual, myCmp: direct comparisons () SmallFpDouble: which impl of InvMod () External libraries: keep copy of () Read input from SymbolicData database New function: quorem for univariate () Hilbert Driven GBasis Design GBMill Fn to read symbol range (SymbolRange)
<ul> <li>PPMonoidSparse: comparisons are ()</li> <li>IsIrred: correct design?</li> <li>SmallFpImpl: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>PPMonoidSparse: comparisons are ()</li> <li>IsIrred: correct design?</li> <li>SmallFpImpl: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>SmallFpImpI: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>SmallFpImpl: different repr for ()</li> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
<ul> <li>bool3: add some logical operations?</li> <li>factor: too slow on largish multivariate ()</li> <li>Impl faster multiplication for ()</li> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
Impl faster multiplication for ()DistrMPolyInIPP::myPushFront and ()IsIrred3: fast 3-way irred test ()myIsEqual, myCmp: direct comparisons ()SmallFpDouble: which impl of InvMod ()External libraries: keep copy of ()Read input from SymbolicData databaseNew function: quorem for univariate ()Hilbert Driven GBasisDesign GBMillFn to read symbol range (SymbolRange)
<ul> <li>DistrMPolyInIPP::myPushFront and ()</li> <li>IsIrred3: fast 3-way irred test ()</li> <li>myIsEqual, myCmp: direct comparisons ()</li> <li>SmallFpDouble: which impl of InvMod ()</li> <li>External libraries: keep copy of ()</li> <li>Read input from SymbolicData database</li> <li>New function: quorem for univariate ()</li> <li>Hilbert Driven GBasis</li> <li>Design GBMill</li> <li>Fn to read symbol range (SymbolRange)</li> </ul>
IsIrred3: fast 3-way irred test () myIsEqual, myCmp: direct comparisons () SmallFpDouble: which impl of InvMod () External libraries: keep copy of () Read input from SymbolicData database New function: quorem for univariate () Hilbert Driven GBasis Design GBMill Fn to read symbol range (SymbolRange)
myIsEqual, myCmp: direct comparisons () SmallFpDouble: which impl of InvMod () External libraries: keep copy of () Read input from SymbolicData database New function: quorem for univariate () Hilbert Driven GBasis Design GBMill Fn to read symbol range (SymbolRange)
myIsEqual, myCmp: direct comparisons () SmallFpDouble: which impl of InvMod () External libraries: keep copy of () Read input from SymbolicData database New function: quorem for univariate () Hilbert Driven GBasis Design GBMill Fn to read symbol range (SymbolRange)
SmallFpDouble: which impl of InvMod () External libraries: keep copy of () Read input from SymbolicData database New function: quorem for univariate () Hilbert Driven GBasis Design GBMill Fn to read symbol range (SymbolRange)
Read input from SymbolicData database New function: quorem for univariate () Hilbert Driven GBasis Design GBMill Fn to read symbol range (SymbolRange)
New function: quorem for univariate () Hilbert Driven GBasis Design GBMill Fn to read symbol range (SymbolRange)
Hilbert Driven GBasis Design GBMill Fn to read symbol range (SymbolRange)
Design GBMill Fn to read symbol range (SymbolRange)
Fn to read symbol range (SymbolRange)
Documentation: check layout of ()
Printing TwinFloat as (rational) ()
LinDepMill: Mill for linear dependencies
Slow NF example
Weights in ElimMat?

ex-PolyIterator QIR/RealRootRefine: improve behaviour () GFan: require version newer than () GCD: add special case if args are () Poly ring homomorphism to change () C++11: Mario's Hilbert scheme code GlobalManager: name of object in ()
GFan: require version newer than () GCD: add special case if args are () Poly ring homomorphism to change () C++11: Mario's Hilbert scheme code GlobalManager: name of object in ()
GCD: add special case if args are () Poly ring homomorphism to change () C++11: Mario's Hilbert scheme code GlobalManager: name of object in ()
Poly ring homomorphism to change () C++11: Mario's Hilbert scheme code GlobalManager: name of object in ()
C++11: Mario's Hilbert scheme code GlobalManager: name of object in ()
GlobalManager: name of object in ()
Dowllat Colligat with own on owners ( )
RowMat, ColMat with arg an empty ()
New "LF" function which is based ()
JanetBasis gives error indet index ()
GroebnerFan: slow examples
Printing ring for ideals (or just ()
GroebnerFan: ERROR: Matrix must ()
Slug: MakeTermOrd (rk calls in ()
invalid pointer in "free"
WEB SITE: HTML is not clean!
Ctors for exceptions/errors
Pseudo-zero-dim ideals
Better printing of negative coeffs
SqFreeFactor: should it work over ()
Organize better the documentation ()
mySquare and myPowerSmallExp
New fn: transform ideal with ring ()
Printing for RingElem
Clean up revised RatReconstructByContFrac (
Upper bound for value of poly in ()
Matrix rank is slow (over QQ)
Non-standard DegRevLex (NonStdDegRevLex,
New function: Threadsafe RandomLinearForm
exgcd; solve Bezout equation
Make a poly ring QQ[x,y,z] also ()
Ideal equality
Ideal Ops: sort-cuts for trivial ()
Port old "clever" code for matrix ()

Improve RealRoots: compute sqfr ()	
Improve RootBound	
All PPs of given wdeg	
gcd: low degree but big coeffs ()	
RandomUnimodularMat is slow with ()	
French students' example with GFan	
Create two separate radical fns ()	
DynamicBitset::lamAll1s	
Unified Gaussian reduction impl	
Benchmarks?	
C++17: notes about updating	
slimgb: Brickenstein, singular	
Clean out OLD CODE?	
CoCoALib - removed/duplicates	
CoCoALib: ideas for student projects	