Project Proposal

Due: Friday, 11.15.24, before 11:59 pm

Instructions

Fill out this form as completely as you can. It will be used by your TA to approve your project. They may ask you to revise it to ensure it meets all the requirements for the project or if they think your project is too ambitious.

	, ambitious.
1.	Names of team members

Blaise Polk

Ryan Ludwig

2. Project title

Linear Algebra Calculator

3. What project will do

Perform automatic calculations on linear algebra problems

4. Project tasks; each task represents a single function (minimum of 6 functions plus main())

Adding rows into each other

Scaling rows

Switching rows

Gaussian Elimination(augment=[[0],[0],[0]], rref or ef)

Linear System Solving

Transformations

Adding matrices

Scaling matrices

Multiplying matrices

Matrix inversion

Determinant calculator

Null space calculator

Column space calculator

Eigenvalue calculator

Diagonalize

Factorize

potentially more if we decide...

Plan for testing your code (used closed-box texting and include edge cases if appr	ropriate	ropria ¹	orgae	it a	ases i	te ca	edge	de e	:lude	incl	and	ting	tex	·box	sed:	clo	sed	(us	code	our	ng v	testi	n tor	Plai	5.
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Test each function as we write them against test cases we think up & solve ourselves We will make sure each function follows applicable theorems to Linear Algebra

Save your Word document as a **pdf** file and submit it via Canvas before 11:59 pm, Friday, 11.15.24.