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solve a simple system of linear equations using sparse matrices consider the matrix equation a x b

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it solv es the system of equations by gaussian elimination which is a series of matrix operations when a is a 3x3 matrix and b is a 3x1 vector then the result xy is a 3x1 vector unfortunately

matlab has another function ldivide which sounds like it is the same thing but it is not

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we will solve this system i e find the values of the variables that satisfy all of the equations simultaneously in two ways using matrix inverses and using left division method 1 using the matrix inverse

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you use the system objects like other matlab variables and include them in matlab code you can pass matlab variables into and out of system objects the main difference between using system objects and using functions is that system objects use a two step process

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