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MATLAB Programming Tutorial #21

Tri-Diagonal Matrix Algorithm

~~Tridiagonal Systems in MATLAB |~~

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*Creating Tridiagonal Matrix in
MATLAB*

Tri-Diagonal Matrix Algorithm Create

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diagonal matrix using nested For loop and If-Else statements | MATLAB
~~Matlab Chapter 6 Introduction to for loops to create matrix and Pascal Matrix Exercise problem 6-11 Create diagonal matrix or get/change diagonal elements of matrix -Matlab tutorial~~
~~Matlab Sect 28 Matrix Transpose,~~

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~~Diagonal Elements, and LU~~

~~Decomposition~~ **Sparse Matrix Matlab**

Thomas Algorithm | Tri-Diagonal

Matrix Algorithm Steps Thomas

~~Algorithm~~

Thomas Algorithm for Tri-diagonal

Matrix Algorithm (TDMA)

Zero, identity, diagonal, triangular,

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banded matrices | Lecture 3 | Matrix
Algebra for Engineers

**How to
Transpose a Matrix in MATLAB.**

[HD] *LU Decomposition Using Crout's
Method in MatLab Eigenvalues and*

Eigenvectors in MATLAB THOMAS

ALGORITHM//ENGINEERING

MATHEMATICS-3//FIND SOLUTION

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OF SYSTEM OF

EQUATIONS//MATHSPEDIA//

MATLAB For Loop Tutorial

[TUTORIAL] Matrices en MatLab MIT

Numerical Methods for PDE Lecture 3:

Finite Difference 2D Matlab Demo

~~How to Make a Matrix in a Loop in~~

~~MATLAB - MATLAB Tutorial~~

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Randomized SVD Code [Matlab]
*Thomas Algorithm for Tri-Diagonal
Systems* MATLAB demonstration
TDMA algorithm using matlab *Create
diagonal matrix without using MATLAB
built-in functions 06.2. Linear Solver -
Part 1 (2450_2020_06.2) LU
Factorization with MATLAB*

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~~Lecture 24 Thomas Algorithm~~ *Lecture 32 : Tri-Diagonal Matrix Algorithm (TDMA)* ~~Tridiagonal and Banded Matrices~~ ~~Tri Diagonal Matrix Matlab~~
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Atkinson on 11 Nov ... Answered: M

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lalu on 4 Dec 2020 at 13:38 Accepted Answer: Stephen Cobeldick. I am currently trying to create a 500*500 matrix in matlab with diagonals $a=-1$, $b=4$, $c=2$. My teacher has said that the best way to go about it is using loops, but is there a ...

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~~Creating a tridiagonal matrix~~

~~MATLAB Answers - MATLAB ...~~

No. MATLAB does not care that it is explicitly a tridiagonal matrix.

However, because it IS a tridiagonal sparse matrix, AND because the sparse solver is efficient on sparse matrices, MATLAB effectively does

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use an extremely efficient scheme to solve the problem. Can you do better?

~~Tridiagonal matrix (thomas algorithm) -
MATLAB Answers ...~~

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Answer: Stephen Cobeldick. I am currently trying to create a 500×500 matrix in matlab with diagonals $a=-1$, $b=4$, $c=2$. My teacher has said that the best way to go about it is using loops, but is there a coded in function to use?
2 Comments.

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~~Creating a tridiagonal matrix~~

~~MATLAB Answers - MATLAB ...~~

```
function x = TDMA solver (a,b,c,d) %a,  
b, c are the column vectors for the  
compressed tridiagonal matrix, d is the  
right vector n = length (d); % n is the  
number of rows % Modify the first-row  
coefficients c (1) = c (1) / b (1); %
```

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Division by zero risk. $d(1) = d(1) / b(1)$; for $i = 2: n-1$ $temp = b(i) - a(i) * c(i-1)$; $c(i) = c(i) / temp$; $d(i) = (d(i) - a(i) * d(i-1)) / temp$; end $d(n) = (d(n) - a(n) * d(n-1)) / (b(n) - a(n) * c(n-1))$; %
Now back substitute. $x(n) = d(n)$; for $i = n-1 \dots$

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~~Algorithm Implementation/Linear Algebra/Tridiagonal matrix ...~~

It can be done by using `tril(square_matrix_name,offset)` and `triu(square_matrix_size,offset)` [For more info on the above commands you can refer MATLAB help.] Let the size of the tridiagonal matrix be 6-by-6.

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(Obviously you can have any other square matrix size.) Step 1. Create a matrix A of size 6-by-6; I used `A=rand(6)` The matrix generated was

~~What is a good way to create a tridiagonal matrix in matlab?~~

In numerical linear algebra, the

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tridiagonal matrix algorithm, also known as the Thomas algorithm (named after Llewellyn Thomas), is a simplified form of Gaussian elimination that can be used to solve tridiagonal systems of equations. A tridiagonal system for n unknowns may be written as.

$$a_{i-1}x_{i-1} + b_i x_i + c_{i+1}x_{i+1} = d_i$$

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$$\{i\}+c_{\{i\}}x_{\{i+1\}}=d_{\{i\}}, \backslash, \backslash!$$

~~Tridiagonal matrix algorithm~~

Wikipedia

Creating a tridiagonal matrix. Follow 1

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Accepted Answer: Stephen Cobeldick.

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I am currently trying to create a 500×500 matrix in matlab with diagonals $a=-1$, $b=4$, $c=2$. My teacher has said that the best way to go about it is using loops, but is there a coded in function to use?

~~Creating a tridiagonal matrix~~

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~~MATLAB Answers - MATLAB ...~~

Starting with one of the tridiagonal solver codes, make a new copy called `X = tridiag inverse(A)` or `X = tridiag sparse inverse(a,b,c)`. Instead of inputting a right hand side vector `f`, set up a dense $n \times n$ matrix `F`, which is initialized to the identity matrix. Now

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solve for a dense $n \times n$ matrix X , which will be the inverse of the tridiagonal matrix.

~~Solving a tridiagonal linear system~~
Properties. A tridiagonal matrix is a matrix that is both upper and lower Hessenberg matrix. In particular, a

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tridiagonal matrix is a direct sum of p 1-by-1 and q 2-by-2 matrices such that $p + q/2 = n$ — the dimension of the tridiagonal. Although a general tridiagonal matrix is not necessarily symmetric or Hermitian, many of those that arise when solving linear algebra problems have one of ...

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~~Tridiagonal matrix - Wikipedia~~

Tridiagonal matrix equation solver (thomas algorithm) in matlab. The following Matlab project contains the source code and Matlab examples used for tridiagonal matrix equation solver (thomas algorithm) . This is an

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implementation of the Thomas algorithm (for solving a $n \times n$ tridiagonal matrix equation) The source code and files included in this project are listed in the project files section, please make sure whether the listed source code meet your needs there.

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~~Tridiagonal matrix equation solver (thomas algorithm) in ...~~

For variable-size inputs that are not variable-length vectors (1-by-: or :-by-1), diag treats the input as a matrix from which to extract a diagonal vector. This behavior occurs even if the input array is a vector at run time.

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To force diag to build a matrix from variable-size inputs that are not 1-by-: or :-by-1, use:

~~Create diagonal matrix or get diagonal elements of matrix ...~~

So, in the following program, the matrix is made tridiagonal by taking

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coefficients of the upper and lower triangles to the right side of the equation and then the algorithm is implemented. The initial guesses for the solutions are assumed which is corrected iteratively in the program.

~~A Modified Thomas Algorithm by~~

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~~MATLAB Codes~~

Every once in a while I need to generate a tridiagonal matrix with replicated elements down the diagonals. Sometimes its nice to generate block tridiagonal matrices of the same form.

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~~(Block) tri-diagonal matrices - File Exchange - MATLAB Central~~

Crear matriz diagonal o obtener elementos diagonales de Matrix.

contraer todo en la página. Sintaxis. $D = \text{diag}(v)$ $D = \text{diag}(v,k)$ $x = \text{diag}(A)$ $x = \text{diag}(A,k)$ Descripción. ejemplo. ... Los navegadores web no admiten

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