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efficiently compute sums of diagonals of a matrix given a 2d square matrix find the sum of elements in principal and secondary diagonals for example consider the following 4 x 4 input matrix the primary diagonal is formed by the elements a00 a11 a22 a33 here is one way one how to do it since the matrix is square we can get sum of a diagonal and anti diagonal by using a original and reversed lists matrix 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 to sum an empty list for collection values this code snippet defines a function diagonal sums that computes the sums of the main and secondary diagonals of a given square matrix it uses list comprehensions to sum the appropriate elements by iterating over the range of the matrix length in matrix diagonal sum you re required to calculate the sum of elements on the diagonals of a square matrix this problem is simple in terms of understanding the requirements and implementing a solution it mainly involves the traversal of the matrix diagonally and summing up those elements matrix diagonal sum given a square matrix mat return the sum of the matrix diagonals only include the sum of all the elements on the primary diagonal and all the elements on the secondary diagonal that are not part of the primary diagonal in depth solution and explanation for leetcode 1572 matrix diagonal sum in python java c and more intuitions example walk through and complexity analysis better than official and forum solutions given a square matrix as input the desired output is the sum of all elements that form the main diagonal from the top left to the bottom right of the matrix for example in a 3 3 matrix with elements 1 2 3 4 5 6 7 8 9 the diagonal sum would be 1 5 9 15 method 1 iterative approach efficient approach the idea to find the sum of values of principal diagonal is to iterate to n and use the value of matrix row row for the summation of principal diagonal and to find the sum of values of secondary diagonal is to use the value of matrix row n row 1 for summation description given a square matrix mat return the sum of the matrix diagonals only include the sum of all the elements on the primary diagonal and all the elements on the secondary diagonal that are not part of the primary diagonal example 1 input mat 1 2 3 4 5 6 7 8 9 output 25 given a positive integer n the task is to construct a matrix of size n n such that all the matrix elements are distinct from the range 1 n 2 and the sum of elements in both the diagonals of every 2 2 submatrices is even let a a be an n n n n matrix over a field k k show that there exists an invertible matrix p p such that p 1ap p 1 a p is a diagonal sum of an invertible matrix and a nilpotent matrix hint use fitting s lemma example 1 example 2 3 okay so let s talk about how we re going to solve this given an array that is n by n size let s slice an x out of it and sum those numbers up when solving a problem like this i like to look for similarities in the different examples and find a pattern that we can use to solve them all the same way in this article we explored a simple and intuitive approach to calculating the diagonal sum of an nxn matrix using javascript java program for matrix diagonal sum leetcode solution complexity analysis for matrix diagonal sum leetcode solution calculating the diagonal sum of a matrix is a common operation in linear algebra and programming in this article we explored two approaches to compute the diagonal sum in java an iterative method and an efficient method the matrix diagonal sum problem on leetcode asks us to find the sum of the elements on both diagonals of a square matrix given a 2d square matrix arr of dimensions n x n the task is to find the maximum path sum by moving diagonally from any cell and each cell must be visited only once i e from the cell i j a player can move to the cell i 1 j 1 examples sum of cells 1 1 2 2 and 3 3 is 11 diagonal sum difficulty school accuracy 52 31 submissions 11k points 0 given a square matrix of size n n your task is to calculate the sum of its diagonals example 1 input matrix 1 1 1 1 1 1 1 1 1 to calculate the sum of both diagonals of a square matrix in java you can follow these steps initialize a square matrix with values iterate through the matrix to calculate the sums of both diagonals print the matrix and the sums of the diagonals 3 answers sorted by 5 spdiags can do exactly what you want dsum sum spdiags a you can reverse the vector with fliplr and create a function function dsum diagsum a dsum fliplr sum spdiags a end result dsum 3 8 15 12 7 edited oct 12 2016 at 8 21 stewie griffin 14 9k 11 40 71 answered oct 12 2016 at 7 27

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here is one way one how to do it since the matrix is square we can get sum of a diagonal and anti diagonal by using a original and reversed lists matrix 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 to sum an empty list for collection values

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this code snippet defines a function diagonal sums that computes the sums of the main and secondary diagonals of a given square matrix it uses list comprehensions to sum the appropriate elements by iterating over the range of the matrix length

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in matrix diagonal sum you re required to calculate the sum of elements on the diagonals of a square matrix this problem is simple in terms of understanding the requirements and implementing a solution it mainly involves the traversal of the matrix diagonally and summing up those elements

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matrix diagonal sum given a square matrix mat return the sum of the matrix diagonals only include the sum of all the elements on the primary diagonal and all the elements on the secondary diagonal that are not part of the primary diagonal

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given a square matrix as input the desired output is the sum of all elements that form the main diagonal from the top left to the bottom right of the matrix for example in a 3 3 matrix with elements 1 2 3 4 5 6 7 8 9 the diagonal sum would be 1 5 9 15 method 1 iterative approach

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efficient approach the idea to find the sum of values of principal diagonal is to iterate to n and use the value of matrix row row for the summation of principal diagonal and to find the sum of values of secondary diagonal is to use the value of matrix row n row 1 for summation

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description given a square matrix mat return the sum of the matrix diagonals only include the sum of all the elements on the primary diagonal and all the elements on the secondary diagonal that are not part of the primary diagonal example 1 input mat 1 2 3 4 5 6 7 8 9 output 25

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example 1 example 2 3 okay so let s talk about how we re going to solve this given an array that is n by n size let s slice an x out of it and sum those numbers up when solving a problem like this i like to look for similarities in the different examples and find a pattern that we can use to solve them all the same way

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calculating the diagonal sum of a matrix is a common operation in linear algebra and programming in this article we explored two approaches to compute the diagonal sum in java an iterative method and an efficient method

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given a 2d square matrix arr of dimensions n x n the task is to find the maximum path sum by moving diagonally from any cell and each cell must be visited only once i e from the cell i j a player can move to the cell i 1 j 1 examples sum of cells 1 1 2 2 and 3 3 is 11

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to calculate the sum of both diagonals of a square matrix in java you can follow these steps initialize a square matrix with values iterate through the matrix to calculate the sums of both diagonals print the matrix and the sums of the diagonals

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