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## matrix diagonal sum leetcode

Mar 27 2024

easy 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 explanation diagonals sum 1 5 9 3

## solving popular algorithms matrix diagonal sums medium

Feb 26 2024

5 min read oct 12 2020 another week another algorithm to solve this week we are going to be tackling another leetcode problem the problem is called matrix diagonal sums and while it

## python sum of diagonal elements in a matrix stack overflow

Jan 25 2024

import numpy as np a 11 2 4 4 5 6 10 8 12 b np asarray a print diagonal sum np trace b print diagonal elements np diagonal b you can easily install numpy with pip or other ways that you will find on many webs if you want all the diagonals and not just the main diagonal check this that

also uses numpy edit

## efficiently compute sums of diagonals of a matrix

Dec 24 2023

efficiently compute sums of diagonals of a matrix geeksforgeeks last updated 27 sep 2022 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 a00 a01 a02 a03 a10 a11 a12 a13 a20 a21 a22 a23 a30 a31 a32 a33

## 5 best ways to compute sums of diagonals of a finxter

Nov 23 2023

for the main diagonal you would sum elements where the row and column indices are equal for the secondary diagonal you would sum elements where the indices fulfill the condition row index column index size of the matrix 1 here s an example def diagonal sums matrix size len matrix

## *matrix diagonal sum*

Oct 22 2023

for each i add mat i i primary diagonal element and mat i n i 1 secondary diagonal element to the

total sum after the loop if n is odd subtract mat n 2 n 2 middle element from the total sum as it s been counted twice return the total sum 10 prerequisite leetcode problems here are 10 problems that use similar underlying

## python sum of diagonal elements in a matrix code review

Sep 21 2023

the idea is to calculate sum of diagonals example 1 2 3 4 5 6 7 8 9 the correct answer would be 1 5 9 3 5 7 total 30 def sum of matrix data arr solver counter 0 counter2 1 while counter len data arr solver append data counter counter arr solver append data counter counter2 counter data counter counter2

## a is similar to diag a 1 a n then the sum of

Aug 20 2023

dec 29 2018 at 17 49 add a comment 1 answer sorted by 1 the sum of the diagonal elements of a matrix is called the trace of a matrix use the decomposition a p 1dp a p 1 d p as well as the following property of trace tr m1m2m3 tr m2m3m1 tr m 1 m 2 m 3 tr m 2 m 3 m 1 share cite answered dec 29 2018 at 17 47 angryavian

## algorithms 1572 matrix diagonal sum a humble programmer

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easy indeed i can do it on leetcode editor without ide debug problem 1572 matrix diagonal sum java submission detail 113 113 test cases passed runtime 0 ms faster than 100 00 of java online submissions for matrix diagonal sum memory usage 39 5 mb less than 16 30 of java online submissions for matrix diagonal sum algorithms array

## what is the intuition of summing the off diagonals of a

Jun 18 2023

1 answer sorted by 2 one of the most important properties of the determinant and the trace is invariance under conjugation meaning that for any invertible matrix q q and any matrix a a we have trace qaq 1 tr a t r a c e q a q 1 t r a and det qaq 1 det a det q a q 1 det a if we try out your function f f

## *linear algebra how to diagonalize the sum of outer products*

May 17 2023

sep 22 2018 at 5 34 begingroup but you know the

matrix p n that conjugates s n to diagonal apply that to v n 1 too and you get s n 1 sim d n mathbf uu t

## sum diagonal elements of a range cpearson com

Apr 16 2023

assuming our range is named matrix2 the following formula will sum the diagonal elements sum if row matrix2 max row matrix2 column matrix2 max column matrix2 matrix2 false as before this is a array formula and assumes that the number of rows in the range is equal to the number of columns in the range

## calculating and printing the sums of the diagonals of a matrix

Mar 15 2023

this is a program that is supposed to calculate the sum of all the diagonals in the matrix and then print them out ex if the matrix is the output should be 17 13 13 10 5 15 17 13 13 10 14 15 17 13 13 13 14 15 17 13 7 13 14 15 17 int n sum 0 i j sub i sub j sub1 i sub1 j

## calculate the sum of diagonals in

## a matrix daily java concept

Feb 14 2023

explanation of the java program we start by initializing our 3 3 matrix matrix with values from 1 to 9 two variables principalsum and secondarysum are used to store the sums of the principal and secondary diagonals respectively we then enter a for loop that iterates through each row of the matrix

## geometry sum of lengths of sides and diagonals

Jan 13 2023

sum of lengths of sides and diagonals ask question asked 11 years 5 months ago modified 11 years 5 months ago viewed 4k times 1 i will very much appreciate if someone can give me a formula for the sum of lengths of all the sides and all the diagonals of a regular n gon inscribed in a unit circle thank you geometry share cite follow

## can there be a magic square with equal diagonal sums

Dec 12 2022

6 answers sorted by 5 i assume you are looking for one with not just all different numbers for that is trivial just take any n n n n magic square and

add the same amount larger than n2 n 2 to the cells on the diagonals for example you can go from 16 5 9 4 3 10 6 15 2 11 7 14 13 8 12 1 16 3 2 13 5 10 11 8 9 6 7 12 4 15 14 1 to

## how to sum matrix diagonals matlab answers mathworks

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1 comment tia miller on 15 oct 2018 sum diag a 2 is summing the diagonal 2 away from the main diag which has one entry 3 sum diag flip a will sum 3 5 7 or the main diag after the matrix has been flipped sign in to comment sign in to answer this question accepted answer andrei bobrov on 27 sep 2015 vote 0 link

## diagonal sums teaching resources

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## matlab calculate the sum of each

# diagonal of a matrix

Sep 09 2022

diagonal edited oct 12 2016 at 7 52 obchardon 10 7k 1 18 35 asked oct 12 2016 at 7 18 natalie petrov 59 3 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

# adding the diagonal values in a 2d array stack overflow

Aug 08 2022

14 answers sorted by 15 since the diagonals are at perfect square you only need one loop to add the diagonals adding diagonal from orgin

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