## Space complexity of matrix inversion, determinant and adjoint

Asked 1 year, 2 months ago Active 1 year, 2 months ago Viewed 623 times



I want to check the space complexity of



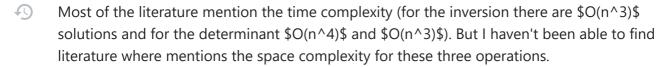
matrix inversion,



matrix adjoint and



matrix determinant.



Do you guys know any good references covering the **space complexity** of some algorithms for these operations ?

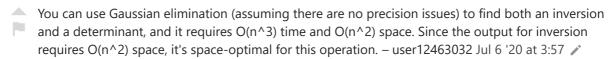
Thank you.

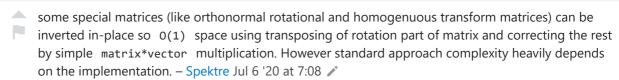
algorithm time-complexity complexity-theory space-complexity matrix-inverse Edit tags

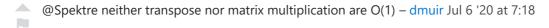
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asked Jul 6 '20 at 3:19









@dmuir transpose is O(1) space its done inplace so the result is already allocated. but youre right matrix\*vector is O(m) space where m is dimensionality of the space the matrix represent usually m=n-1 where n is size of square matrix. here example matrix inv for 4x4 3D matrix − Spektre Jul 6 '20 at 7:21