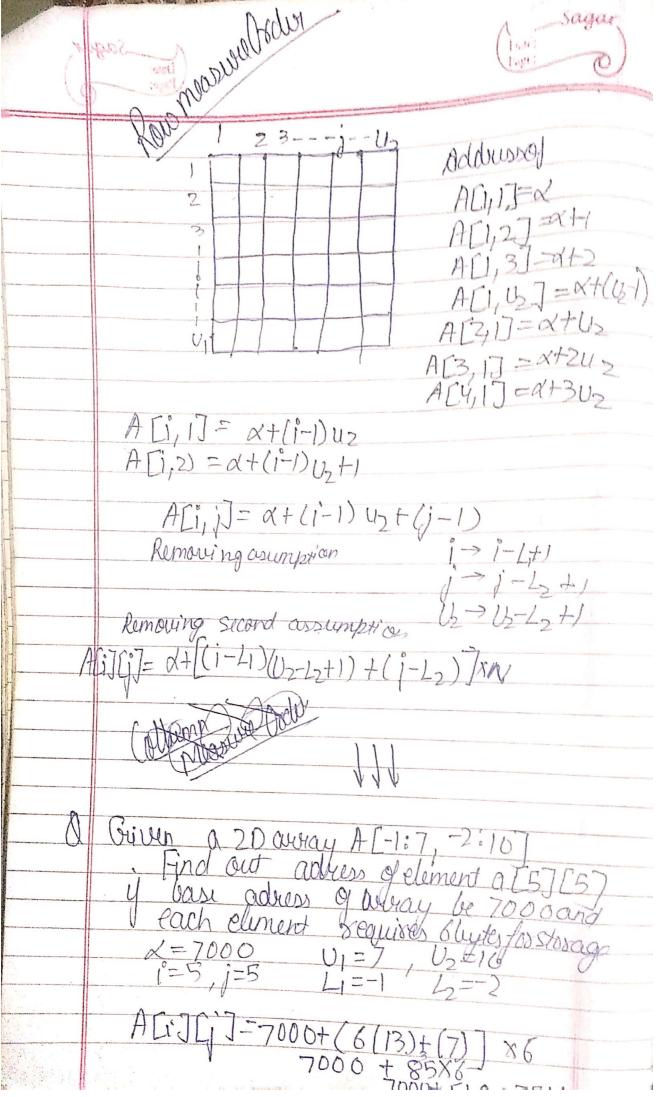
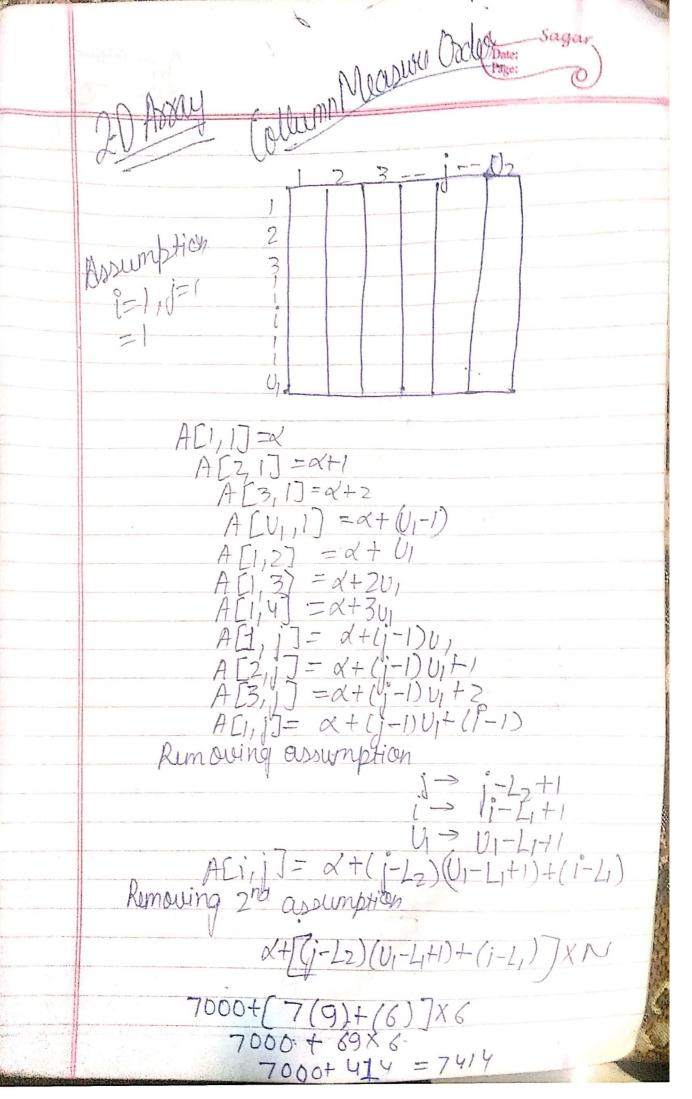
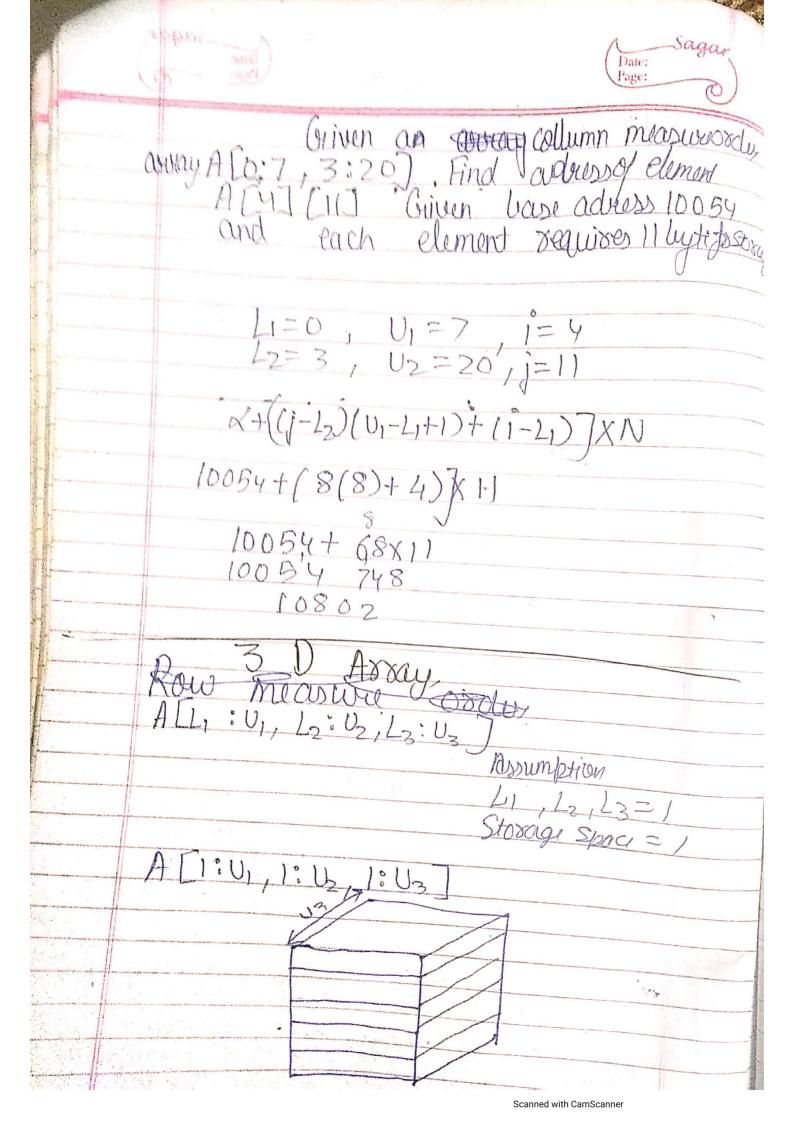
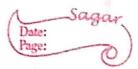
Array - Contiguous Memory allacation Char A A Eyl : 47 upper locurd Index formula lower bound No of eliment = U-P+1 A [0:4] No of element = 4-0+1=5 Dimensional Array (=) Index prunption A ellipses 27=0+1 37 = x + 2ACI] = & +(1-1) = X + (i-L+1/-1

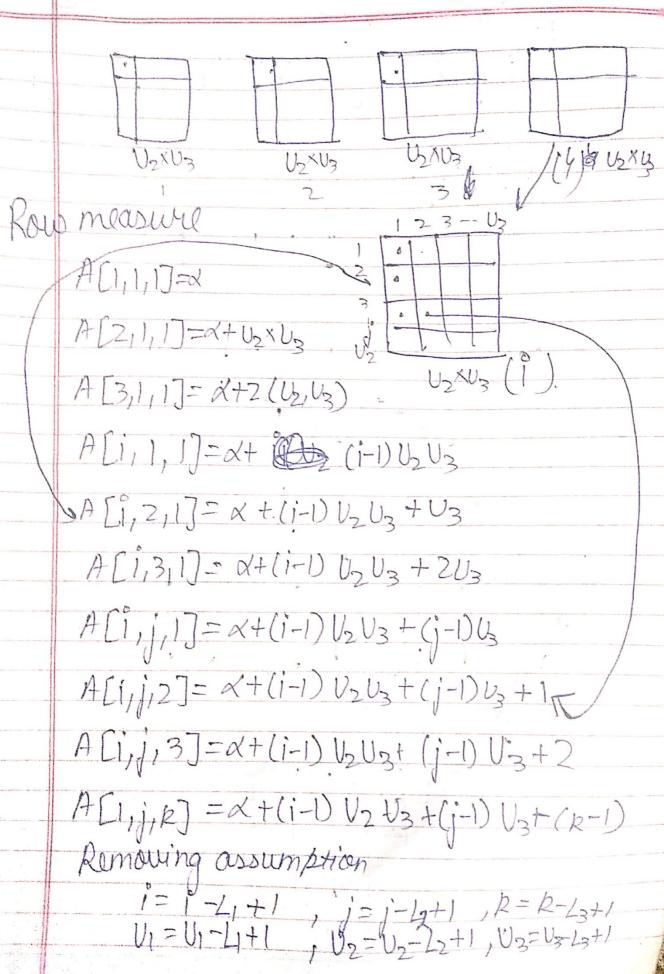
Itssumption I Storage light N =) A(i] = Q+(i-L)XN Consider a one dimensional away
AL-2:10] If base adress of
Ouray is 1000 find out adress of AL7? y every element seguises 4 butes X+ (i-LXN 1000+(7+6)X4 1000 + 36 = 10362-1) Hoxay => A[L1: V1, L2: U2] int A [5] [3]
Rais - U1-L1+1 Collumn U2-L2+1 Q Büyun A [-1:7,-2:10] Find no of rous A etemens Rows = 7+/+1 =9 Collum=10+2+=13 No of ellement = 117

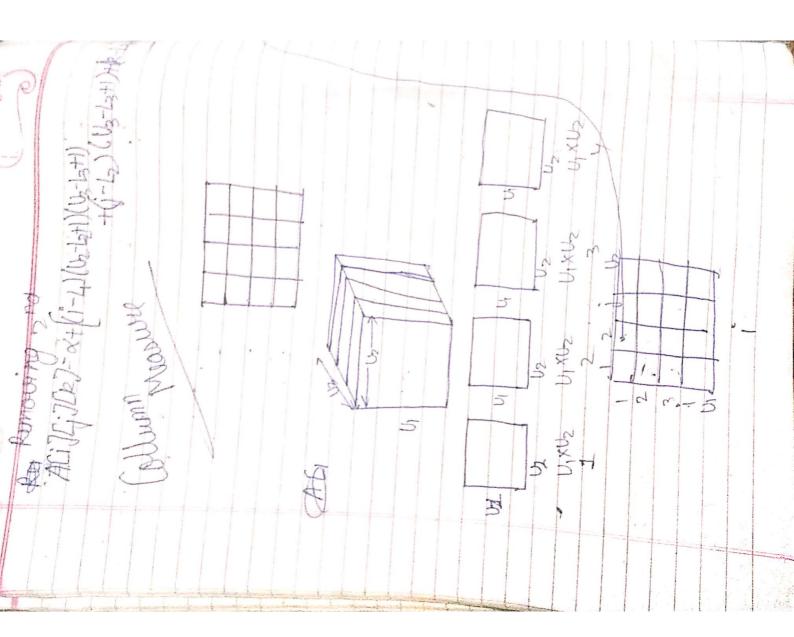


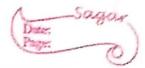




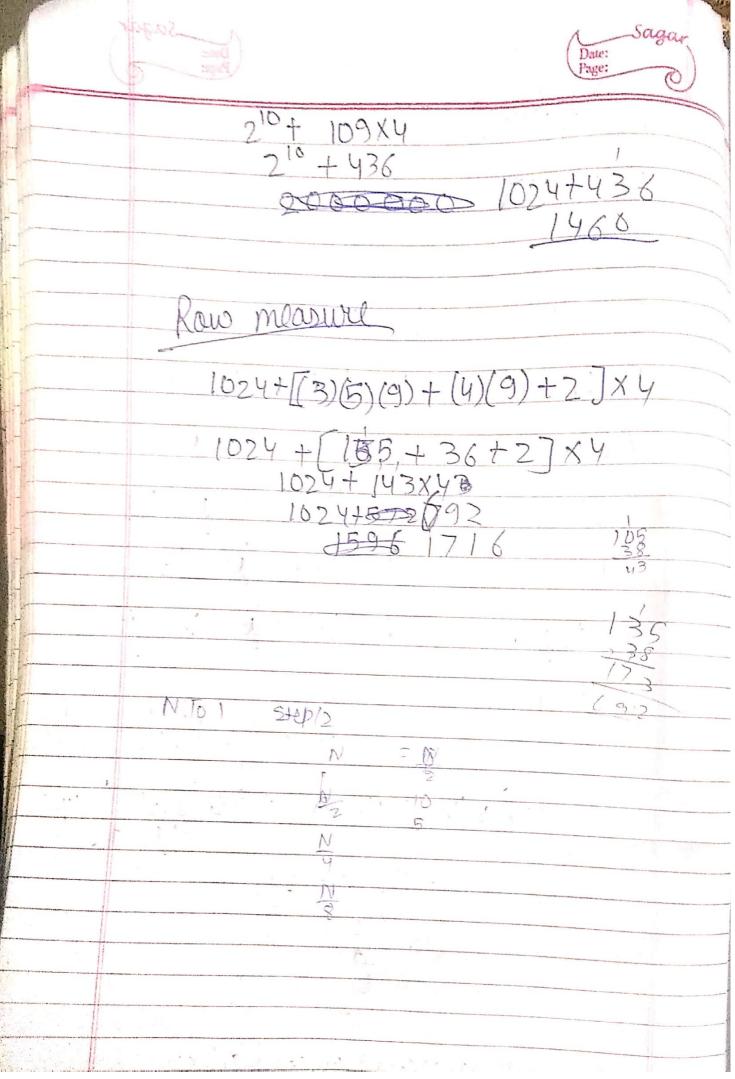


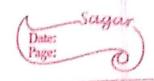






Scanned with CamScanner





toomwa

A Ei] = X+ (i-DXN

Row major AEi, i] = x + [(i-4)(v2-4+1)+(j-12)]xw

Call un measur e

A [iij] = x+ [[j-12) (0,4+1) + (i-4)] xN

=> Agus magososder With assumptions ACI, j, E] = x+[(i-1) U2U3+(j-1) U3+(R-1)].

Collumn mount

ACiji(b) = x+ (K-1) U1 b2 + (j-1) U1+ (i-1)

ROO N Dimension

A [1:0, 15:0, 12:03, -- 4n:UN]

ROW Measure A [1:01;1:02,1:03, --, 1:N)

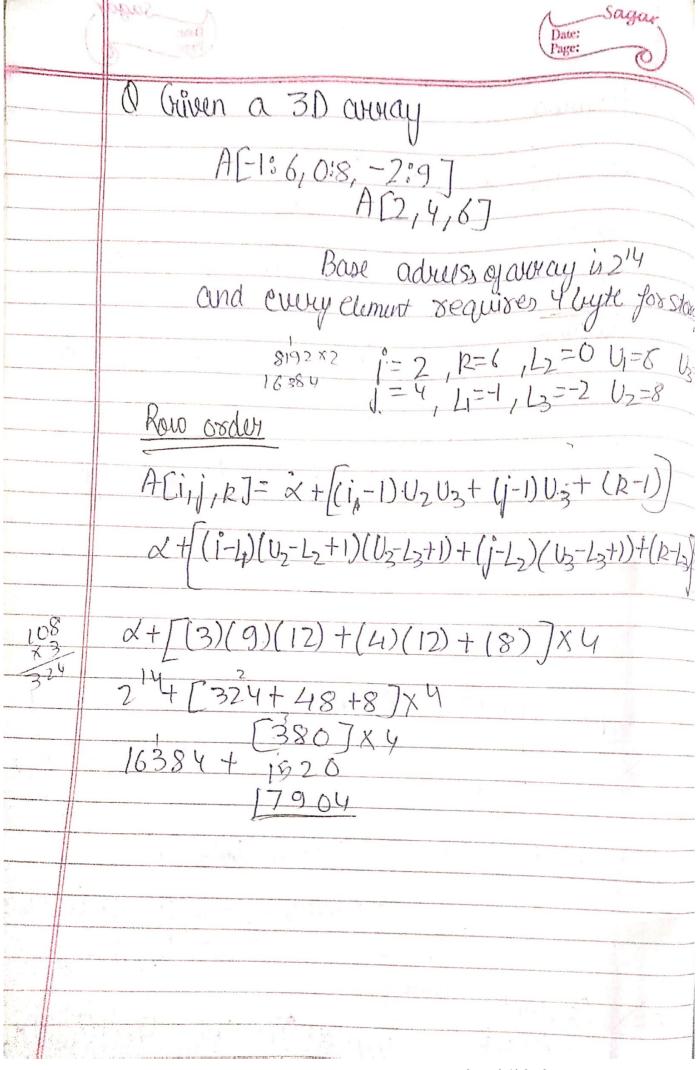
1,12,13---in

A [i, iz, i3, --- in] = x+(i,-1)U2U3--UN

+ (12-1) Uz Uy -- UN+ (13-1) Uy Ug -- UN E + (in-1) UN+(in-1)

Collumn Maswy

A (in 12, 13, --- in) = at (in-1) U1 U2--- UN-1+ (in-1) 44-4 + (in-2-1) U1 U2 -- UN-3 + - - - (1-1) U1+ (1-1)





Collumn Order

A[i,j,k]= x+[x-L3)(U1-L1+1)(15-L1+1) +(j-L2)(U1-L1+1)+(15-L1)x1

[8(8)(9)+(4)(8)+(3)]X4 16384+ [576+32+3] XY 16384+ [611] XY 16384+ 2444

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