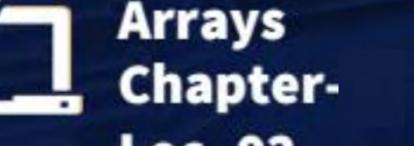
CS & IT ENGINERING



By- Pankaj Sharma sir

Data Structures



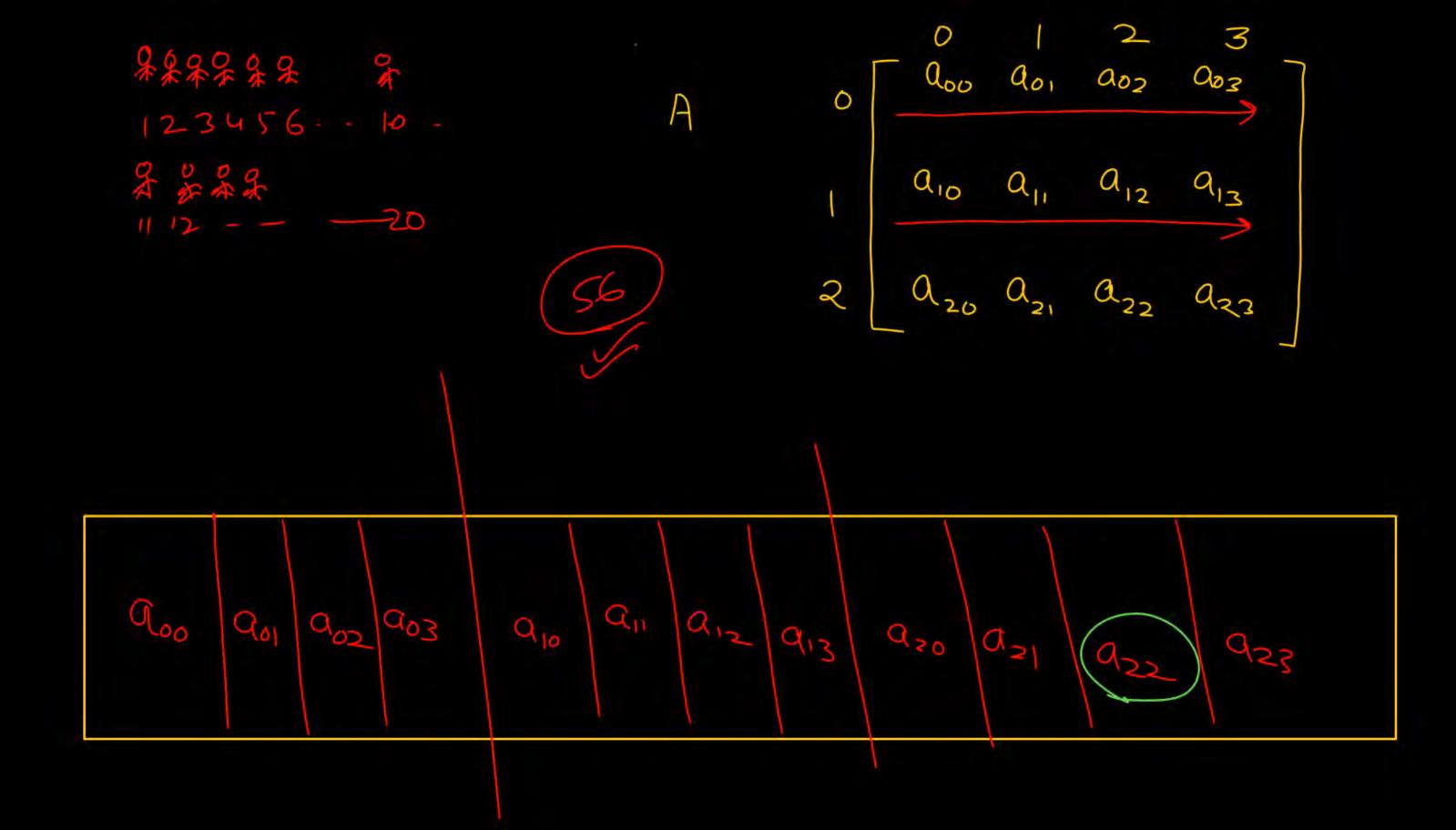






5-(-5)+1=11 [-3..3] 3-(-3)+1=7 w= 2 bytes B-A = 1000 address (A[][]) rows already filled -5 to 0 (+(2-)-O 6 rows

5-(-5)+=11 3-(-3)+1=7 w= 2 bytes B.A = 1000 address (A[][]) after 6 rows -3 to 0 = 0-(-3)+1 = 4 elements 6 rows 24 elements Elem. already filled before A[i][i] = 6x7 + 4 = 46 elementy 5



-- 01234567-A[-5..5][-7..7] 7-(-7)+1=15 w = 4 bytes , BA = 1000 Every index in this dimension represent = 15 element row with index -5 => 15 ele > 15 ele

01234567-A[-5..5][-7..7] 7-(-7)+1=15 w = 4 bytes , BA = 1000 add (A[][3]) 15 Every index in this dimension [cas -7 to 2 represent = 15 element row with index 1 ele already filled before Aiz = cal with index -7 to 2

= lo ele

-7-6--01234567 A[-5..5][-7..7] -4 -3 -2 RMO 7-(-7)+1=15 w=4 bytes, BA = 1000 15 add (A[][3]) 15 15 Elem already filled before A13 call -7 to 2 6 X 15 + 10 100 elements

Memory already filled before A13 = 100 × 4 byte = 400 byte

400 bytes

A13

Gdd(A13) = 1000 + 400

BA

A [M][N)

add (Aij)
otoj-1

Il rows already filled before

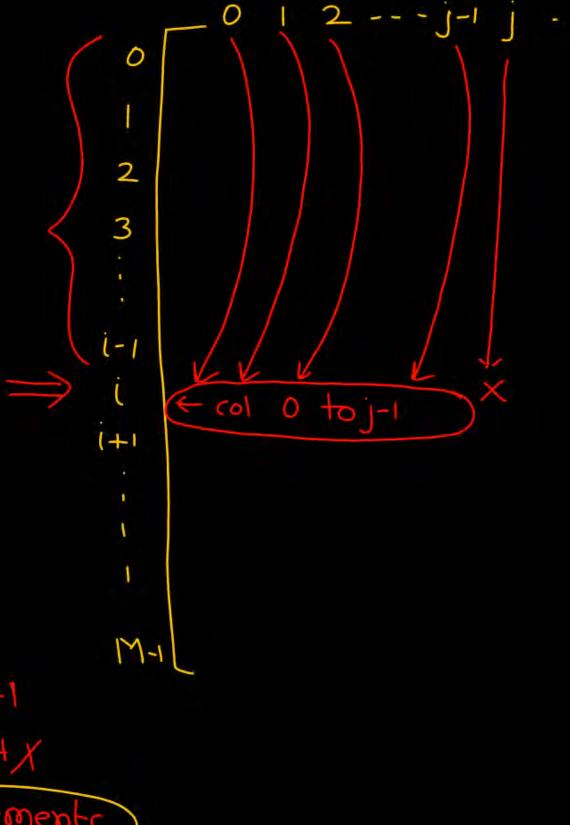
Tow with index i = index 0 toi-1

= (1 80005

within you with index 1, ele.

already filled before Aij = 0 to j-1

= j-1/- 0+)



$$S$$

$$A [-20.20] [-15.15]$$

$$W = 2 \text{ bytes, BA} = 1000$$

$$A [-2][6]$$

$$-20 + 0 = 15 + 0 = 5$$

$$-15 + 0 = 5$$

$$-1-(-20) + 1 = 3$$

$$= 1 - (-20) + 1$$
 $5 - (-15) + 1$
 $= 22 \times 31$ 21

Total elements already filled before A26 = 22x31+21
= 703 elements

$$B$$

$$A [-20.20] [-15.15]$$

$$W = 2 \text{ bytes, BA = 1000}$$

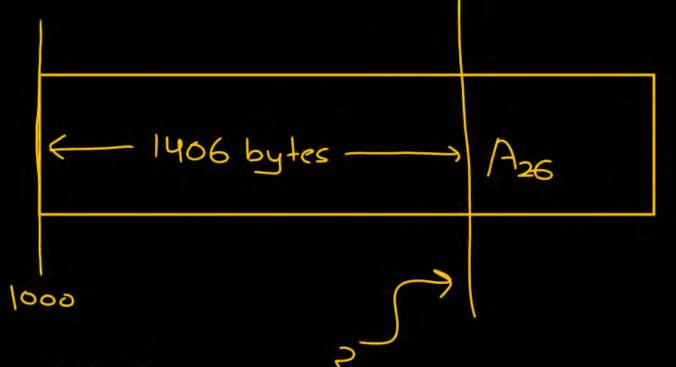
$$A [-20] [-15.15]$$

$$A [-20.20] [-15.15]$$

$$= 1 - (-20) + 1$$

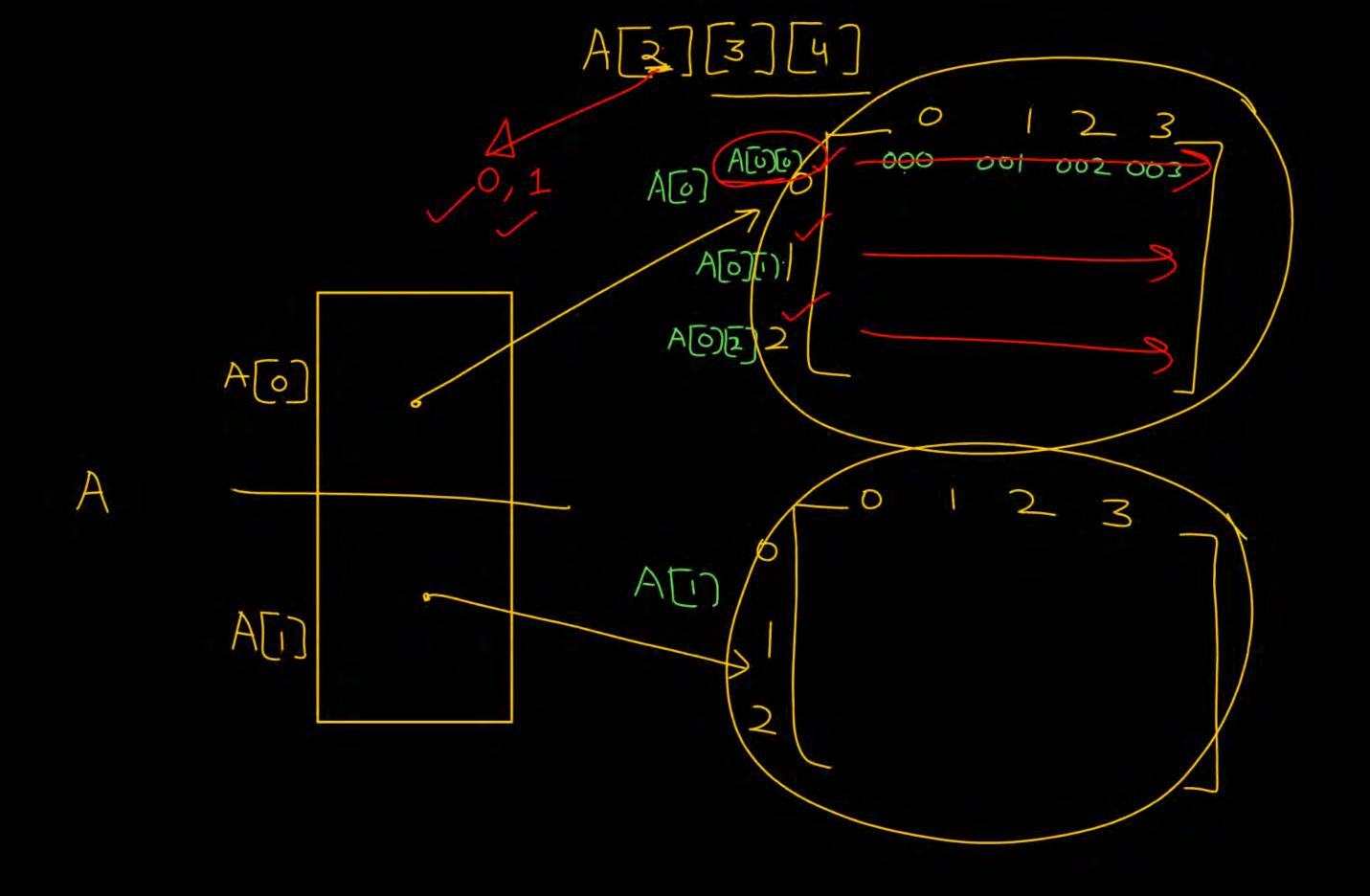
$$= 22 \times 31$$

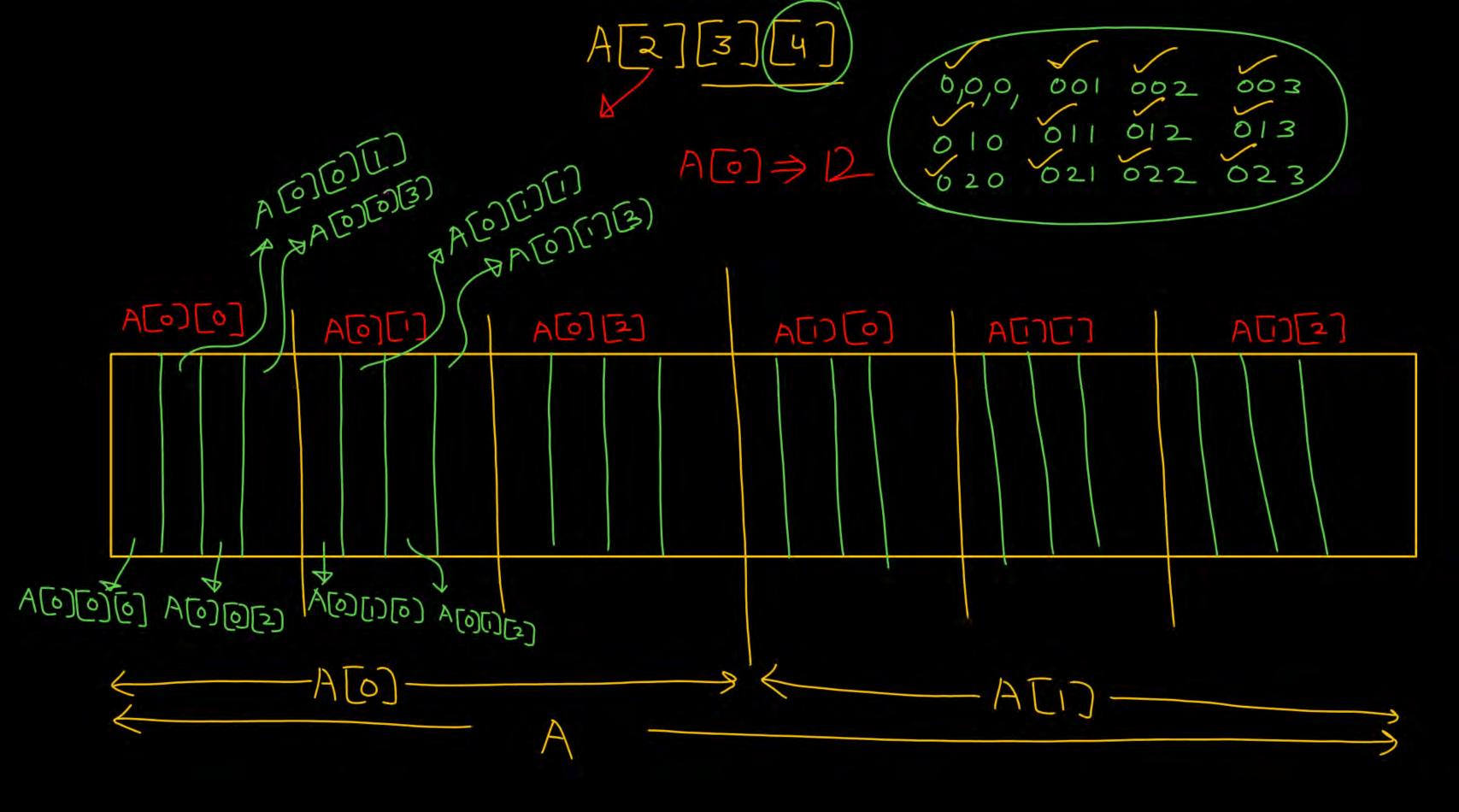
$$= 1$$

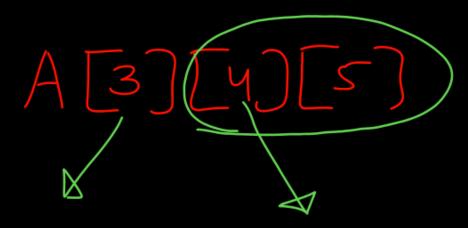


Total elements already filled before $A_{26} = 1000 + 1406 = 2406$

Memory already filled before Aze = 703 x 2 = 1406 bytes



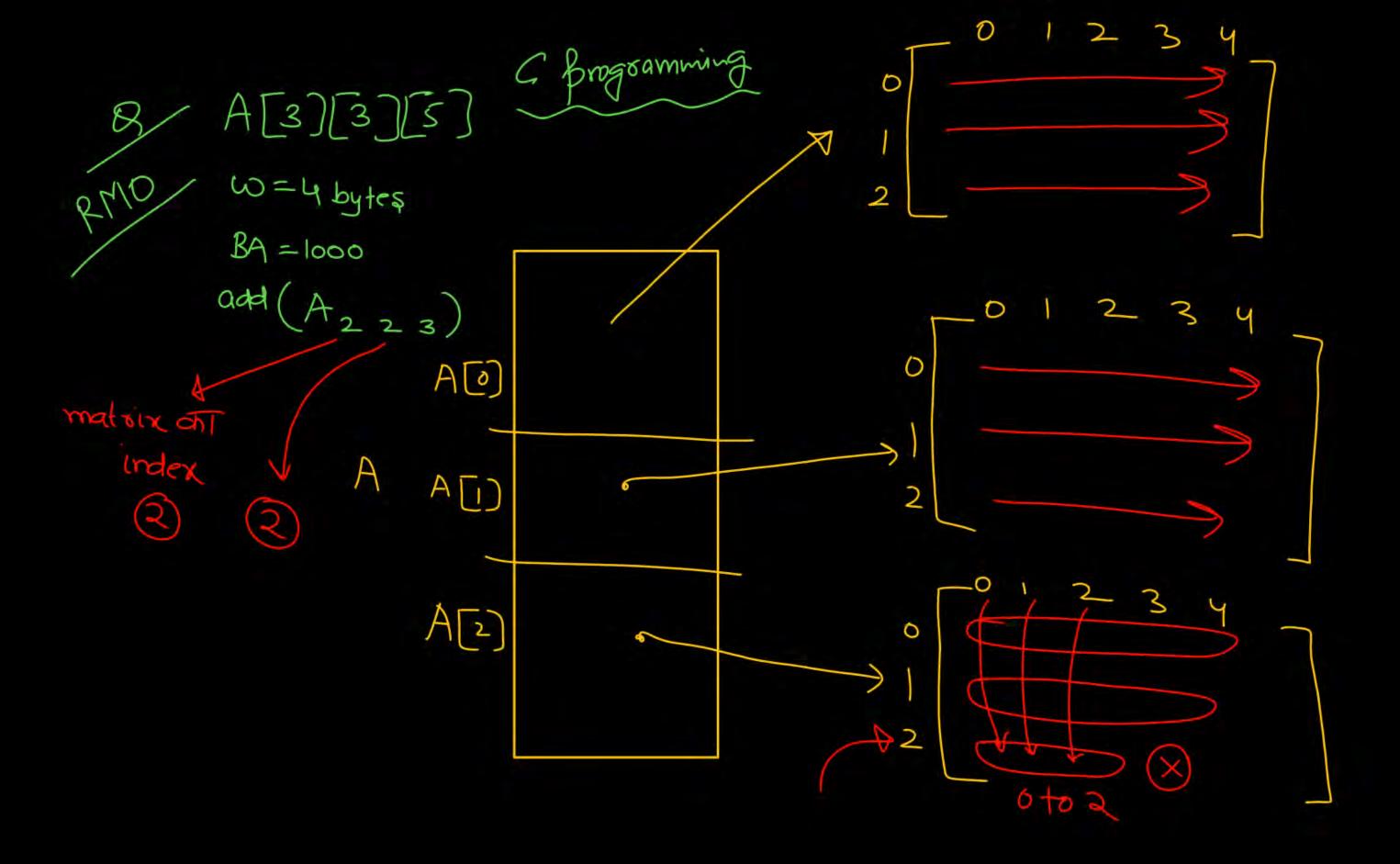




Every index in Every index in 1st dime rep. Indow many how many elements

= 4x5 = 5 elements

C brogsamming A[3][3][5] w=4 bytes Every index BA = 1000 Every index in this dim in this dim = Isele = 5 ele How many o to a How many 0 40 1 index already = 1-0+1 2-0+1 (moles) filled Covered = 0 to 1 = 3 = 1-0+1 = 2 index



w= 2 bytes BA = 1000 add (A342) 3-0+1 3x6x4 + 4x4 +2

Total ele already filled before

A342 = 90 elem.

Memory already filled before A342 = 90x2 bytes = 180 by te 18obytes-

= 1000 + 180 = 1180

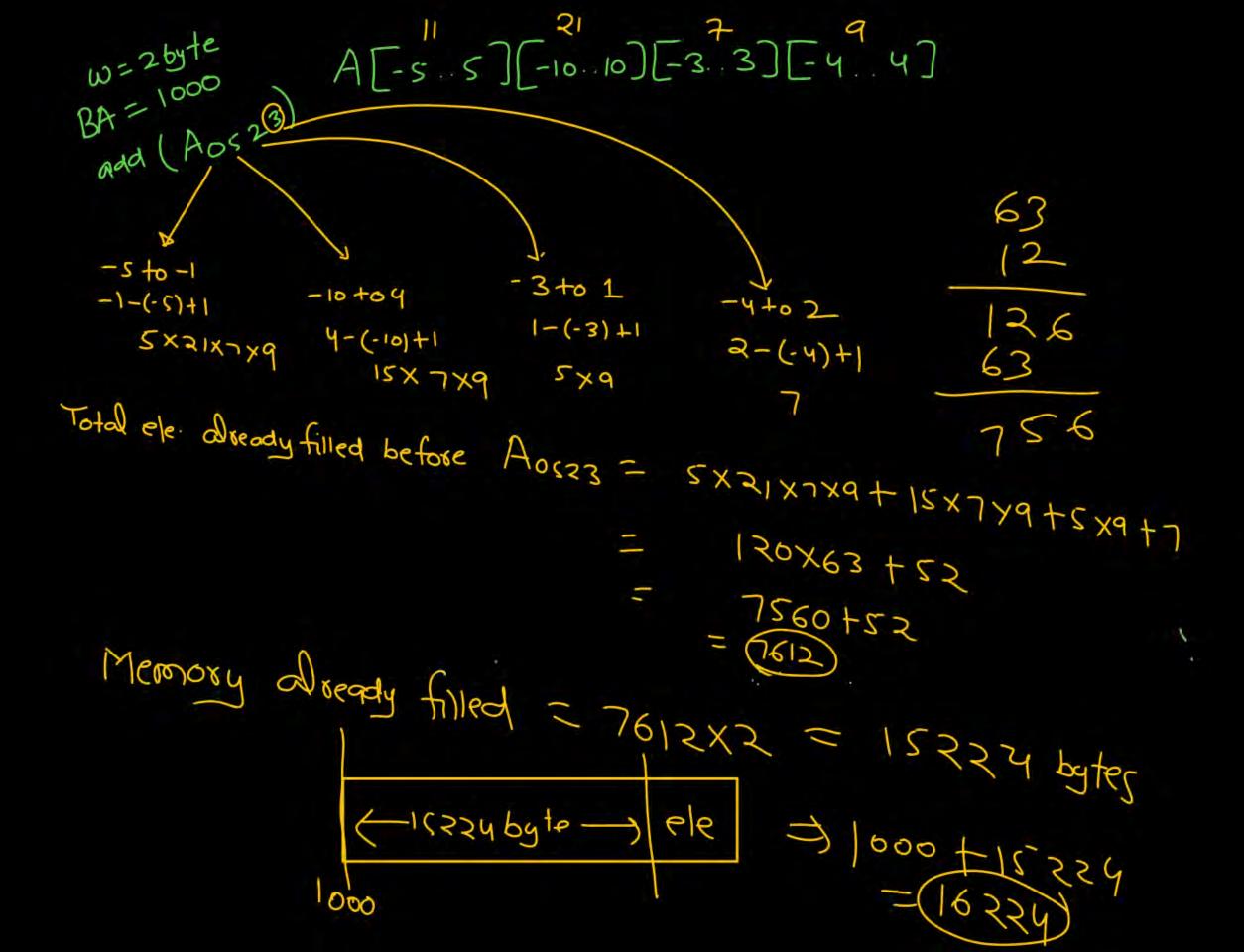
3-(-3)+17
$$S=(-5)+1=(1)$$

BA = 1000

Total elements

before $S=(-5)+1=(1)$
 $S=(-$

 $|1 \times 7 \times 1|$ Total elements already filled before A000 $= \left(5 \times 7 \times 11 + 3 \times 11 + 5\right)$ = 423 elements Memory already filled = 423 X 2 = 846 bytes -846 byte -



Q

A[-10.10][-5.8][-4.6][-3.3]

LO : 2 bytes BA = 0 add(A[-3][-1][0][0])

(FRMO)

Batch related Problem ?

De Last lecture of C to be uploaded

Weekly Test -DS



