- Character array, behaves differently them a normal -> It works as a container for a string (ending with 10) > Charx. Character address >> Cout; we don't get the instead, lout prints byte-by-byte until a character c's found. - ways to take as input in wow array. - output (cont) prints the entire string. - Palindrome, length, append, reverse

ivit' chan str[]= "welcome"; is valid ansign Str= "Coding"; X not possible - chan arrays can only be initialized using a string citeral - o char array can't be assigned a string literal. once you initialize [declare a chart), you can only had by it by going to each index.

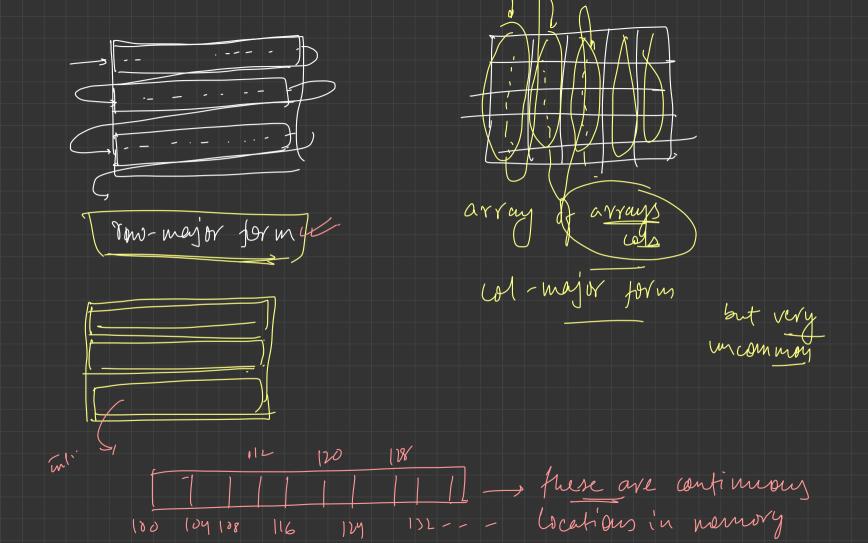
there exists an inbuilt string class (data-type) string instead of char[], i's more easy - We use to use. - behind-the-scenes (implicity) strings themselves use char []. Multi-dinentional arrays - maybe of any basic

deta type

= int, chow, floot, boot, double 2 Darray: om array of arrays?

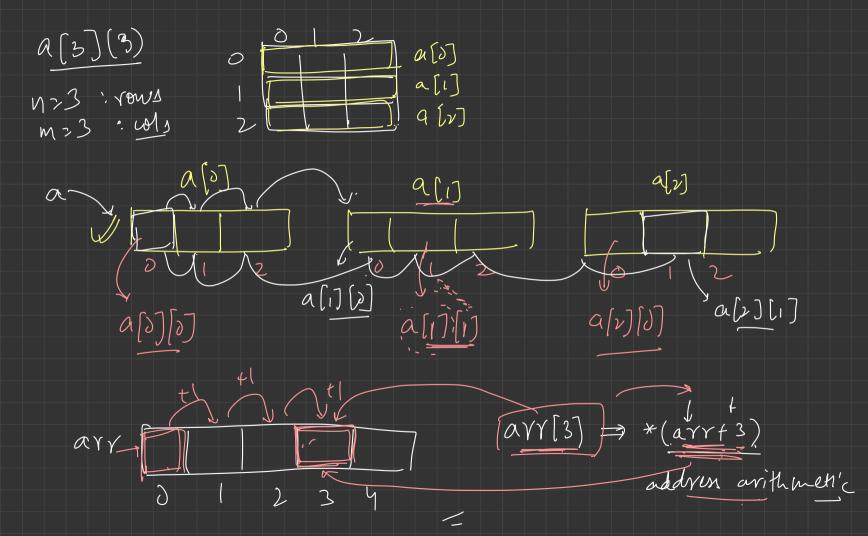
cach index of the 2D array is an array of int array of double uvvay of char just the normal array. array of bool - Array is a collection of same data typic. - no mix ture. 1) array 0 1 2 3 4

0 Cryan array stores data in lo cations. course cutive



randon are stored in continuous locations. Some reason, budgets a [0] [0] a[1][2] m sized a [0](2) chunks or vide9 each of size

V [i][i]. 55 arr[i] = * (arr+i) it was actually address cirklimetic a [i7[j] or(atiti) - this would be wrong Second parameter 9[2][0] *(Q+2+D) -uo $\frac{a[z](0)}{cols}$ * (a + @ dx3 + 0) * (at6) $A[i](j) \Rightarrow *(\alpha + i \cdot m + j)$



 $a[2][1] \Rightarrow *(a+2+1)$ = 2 *(a+3)this is not the way $a(2)(1) \Rightarrow$ * (at 2×m +1) M--3 *(a+2x3+1) *(a+7)2 vous entirely 2 x m buckets $\frac{\alpha(i)(j) = *(\alpha + i \times m + j)}{-}$ Conceptually Correct, But not actually ??

We can say arr i's a pointer to the array or in case

of 20 arrays, its a row pointer. a[i][j] = *(*(a+i), +j) ara pointer to a row pointer 2) array \Rightarrow arr[i] = *(arrti) = 2 $array \Rightarrow array \Rightarrow$ a[k][j] = *(*(a+k)+j)

Pointer to an array: int (*p) [5]

Array of pointers: int *p[5]-

Q Given a matrix, determine which row or column has the largest sum?