

DOVYA 00 -9401196

arr[1][2] means 2 arr[2][0] means 1 arr[0][2] means 9

>

How does arr[1][2] know that it should be placed on 5th index in the memory.

It is calculated by the formula, i.e.,

total

no. of rownors

columns

Total columns are 3, row no is 1 & column no is 2.

* Declare 20	Avv	ay:		FOR FIRE			
		A (C	1507	LAJEDYTD -			
int	av	V 13	[E3]	· LOILLIYYD			
		V	1	CAMOLAND			
no of no of							
Rows columns							
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2							
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* Initialize 2	D AV	ray	· 411	The state of the s			
		, ,		1, 2 1 1 9 1 4 1 1			
int	avvr	3753	7 = {				
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0 1 2							
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		4	3				
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2	7	8	9				
The state of the s				PARTIE NAME OF THE PARTY OF THE			
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& Accessing elements :

01 = MU2 (-1 P) 2

cout « arr [1][2]; 116

cout « arr [1][0]; 114 cout << arr [0][2]; 113 cout << arr [0] [0] [1] cout << avr[2][1]; 1/8

& Access 20 array row wise:

element at a time!

forlint i 20, i < 3; i++) {
 cout << "Row no." << i << >""

11 inner 1000 for printing

to ith row. Duby ording

for (int j 20; j < 3; j++) { cout << arraijajj <<

cout << endl;

ques Print row-wise sum in the matrix.

In this, we've given a matrix & we have to print the sum of each row.

For example:

1	1	2	3	4	-> sum =	10
9	2	3	4	11.	-> sum 2	20
	5	6	(	3	-> sum =	15
	2	4	6	8	-> sum ?	20
	-	9	9	7	> sum 2	26

## cod 6 ;=

#include (iostream)

#include (vector)

using namespace sta;

int main()

s

int arr[5][4] 2 {

£1,2,3,43, £2,3,4,113, £5,6,1,33, £2,4,6,83, £1,9,9,73

Date .... for(int i 20; i < 5; i + 1) {
 int sum 20;
 for(int j 20; j < 4; J++) {
 sum = sum + arr[i][j] cout << "Row" << i << "sum is: " << sum; cout << end1; return 10; -19500 112000 FOR

Print column-wise sum in matrix. the 2 3 6 6 2 4 9 sum 211 sum = 24 code:int main () int arr[5][4] << sum; Spinal 3 Teacher's Sign .....

Date.....

Que Linearly search an element in 20 array 7 らってってってっ Hindude (iostream) using namespace std; int main () int arr[5][4] = { {10,12,13, £15,16,17,183, £19,20,21,223, £23,24,25,263, Kenny 3017 33 {27,28,29,307 CHANGE THE ADMINIST 3; MINES 11 print array cout << " current array: "; for (int 1:0; 1 < 5; 1++) for(int j:0; j < 4; j+t) cout << arr[i][i] << "; cout << endl: int n; cout << "In Enter element: "; cin >> n:

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flag = 1; told abubait break; if (flag ==1){
cout << "Infound."; 6/16 { cout << "In Not Found.";

Ques Maximum & Minimum element in an array. うりょうこうとうとう code: 1 1 2 1 20 = 1 407 1 40 int main () mucrimin & 27, int max = INT\_MIN; for (int i=0; i < 5; i++) forlint j = 0; j < 4; j++) if (arr[i][j] > max) max = avv[i][j]:

Date..... int min = INT\_MAX; for(inti=0; i 65; i+t) forlint j = 0; j < 4; j+t) bos iflarr[i][j] < min) min = arreijejj; cout << "minimum!" << min; cout << maximum: " << max; Ques Transpose a matrix.

Transpose means, Row becomes column and column becomes

		0	1	2	11134462385400	0	1	2
	0	10	12	13	0	10	15	19
	1	15	16	17		12	16	80
	2	19	80	21	2	13	17	21
•	2	19	80	21	2	13	17	2

(before transpose)

(after transpose)

code:-

Hinclude (iostream)
using namespace sta;
int main ()

int arr[3][3] = {

£10,12,133, £15,16,173, £19,80,213

int brr[3][3];

cout (( "current array: ";
for (int i > 0; i < 3; i++) for (int j 20; j < 3; j++) cout << avr[i][j] << " " cout << end!; for(inti=0; i<3; i++)) for (int j = 0; j < 3; j+t) bry[j][i] 2 arr[i][j]; cout (< "array after transpos"
for (int i = 0; i < 3; itt) for(intj20; j(3; j++) 2 cout << bry[i][j] << "; cout << endl; return O.

Date.....

s ques Declaring 2D vector. code :-Hinclude (iostream) #include-(vector) using namespace std; int main () vector (vector (int)) arr; vector (int) a &1,2,33; vector (int) b { 4, 5, 6 3; vector (int) c { 7, 8, 9 3; arr, push\_back(a); arr push back (b); arr. push-back (c); for lint i : 0; i < arr. size (); itt) for (int j = 0; j < arr[i].size(); 3 cout « arr[i][j] « "; ullowether return 0:

2nd way of declaring vector of vector:in outer vector vector (vector (int)) arr (rows, vector (int) (col, o from which type of columns values we want to initialize vector our outer vector value with which we want to initialize inner vecto For example, vector (vector (int)) arr (7, vector (int) (6 0)); this will create this type of matrix internally