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il (2D) arrays in C ith example

ay. The two dimensional (2D) array in **C**A matrix can be represented as a table of ore about two Dimensional array lets have a

sional(2D) Array

a two dimensional array, we will discuss rates how to store the elements entered by the elements of a two dimensional array.

```
k/
```

```
sp[%d][%d]:", i, j);
```

ements:\n");

) Array

o Dimensional arrays during declaration.

L4, 15, 16, 17};

are valid, I recommend you to use the first se you can visualize the rows and columns of

lizing a 2D array

normal **array** (or you can say one dimensional it to specify the size of it. However that's always specify the second dimension even if ne declaration. Let's understand this with the

pecify second dimension*/

on mentioned above*/

input data into 2D

two dimensional array can have by using this

elements. The array that we have in the is 5 and 4. These dimensions are known as subscript value as 5 and second subscript

20 elements.

we are using two for loops, one of them is a 0 to the (first subscript -1) and the inner

k/

subscript -1). This way the the order in be abc[0][0], abc[0][1], abc[0][2]...so on.

```
:[%d][%d]:", i, j);
```

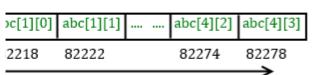
bc of integer type. Conceptually you can

<u>ıal memory representation</u>

ipt Gillie

.]	abc[0][2]	abc[0][3]
.]	abc[1][2]	abc[1][3]
.]	abc[2][2]	abc[2][3]
.]	abc[3][2]	abc[3][3]
.]	abc[4][2]	abc[4][3]

which can be conceptually viewed as olumns. Point to note here is that subscript ans abc[0][0] would be the first element of this array in memory would be something like



ns for the array elements

:h element would use 4 bytes that's the reason ement's addresses.

ented in hex. This diagram shows them in ements are stored in contiguos locations, so that is difference between each element is equal to the better understanding see the program below.

presentation of a 2D array

ay

However in the case 2D arrays the logic is a 2D array as collection of several one

first element of the first row (if we consider

ess of the first element of the second row. To program -

aying an address would be t for the demonstration the address in int so that t with the diagram above that int element uses and how they memory locations.

)0101424 1600101440

uld be in hex for which we use %p instead of s is just to show that the elements are . You can relate the output with the diagram een these addresses is actually number of it row.

ongs to the first element of each row abc[0] and abc[4][0].

Next >

.sorting and searching
a ,you will get extension about it.
ion array plzzz help
of arrays with output as array of nos.

```
10], second[10][10], sum[10][10];
f rows and columns of Array(2D)\n");
of first Array\n");
of second Array\n");
);
second[c][d];
```

ite.

) a pointer ? I am getting error.

nceptual memory representation" has the switched the number of rows and columns.

3!!!

ı I dont no row and column size & this value							
the user can insert fruits and their price isional array lly dont know how to do it							
address of particular element in two							

`ix way on console ?

a sentence in a 2D array. Can you help me

olished. Required fields are marked *

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