

2D Arrays

Declare an array named numbers with a constant size of 5 X 5.

1- Make/Use a function **getNumbers** to get the values for

every element of the array.

2- Make/Use a function **showNumbers** to display the array in this form.

| | | | | |
|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 |

3- Make/Use a function **addRows** to add each row and display it.

Total for row 1 is: 15

Total for row 2 is: 40

And so on....

4- make/Use a function **highest** to find the highest value in the array.

The output should look exactly like this.

```
/*=====OUTPUT=====

Enter number in position (1, 1): 1
Enter number in position (1, 2): 2
Enter number in position (1, 3): 8
Enter number in position (1, 4): 12
Enter number in position (1, 5): 4
Enter number in position (2, 1): 5
Enter number in position (2, 2): 19
Enter number in position (2, 3): 13
Enter number in position (2, 4): 3
Enter number in position (2, 5): 4
Enter number in position (3, 1): 6
Enter number in position (3, 2): 16
Enter number in position (3, 3): 12
Enter number in position (3, 4): 0
Enter number in position (3, 5): 8
Enter number in position (4, 1): 4
Enter number in position (4, 2): 11
Enter number in position (4, 3): 14
Enter number in position (4, 4): 8
Enter number in position (4, 5): 3
Enter number in position (5, 1): 2
Enter number in position (5, 2): 7
Enter number in position (5, 3): 17
Enter number in position (5, 4): 12
Enter number in position (5, 5): 1
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Here is what you entered:

    1   2   8  12  4
    5  19  13   3  4
    6  16  12   0  8
    4  11  14   8  3
    2   7  17  12  1

Is that correct? (Y/N): y
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The total for row 1: 27
The total for row 2: 44
The total for row 3: 42
The total for row 4: 40
The total for row 5: 39

The highest number is 19
*/
```