

IMY 220

Practical 2:

PHP

Due: Friday 2 August @ 11:30

The submission instructions are available on ClickUP. Any deviation from these instructions will cause a 10% deduction from your mark.

Instructions

- Use PHP to write a matrix-addition calculator for any matrix size.
- Download the file `index.php` from ClickUP. This file contains a simple form for setting the size of a matrix. All of your work must be done inside this file, in other words, you are not allowed to create any new files.
- This practical will not require you to add any styling, i.e. any CSS or Bootstrap.

Section 1

When the form setting the width and height submits (to the same page), use that width and height to create a form containing (number) inputs for two matrices and a submit button. For example, if the width is set to 2 and the height is set to 3, the following should be displayed:

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Send

Also note that in order to do Section 2, you will need to send the width and height of the matrices through again. Use hidden inputs (`input type="hidden"`) to accomplish this.

Section 2

When submitting the form for the matrices (again, to the same page), use the inputs from both matrices and calculate the sum of them. Matrix addition works as follows:

$$\begin{bmatrix} A & B \\ C & D \end{bmatrix} + \begin{bmatrix} E & F \\ G & H \end{bmatrix} = \begin{bmatrix} A + E & B + F \\ C + G & D + H \end{bmatrix}$$

In other words, every corresponding index from both matrices (for example, $x[1]y[1]$ from matrix 1 and 2) gets added for any number of rows and columns. So, for example if the following two matrices are added:

1	2
3	4
5	6

7	8
9	10
11	12

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The resulting matrix (i.e. the answer) should be as follows:

8	10
12	14
16	18

...since $1 + 7 = 8$, $2 + 8 = 10$, etc. Print out the resulting matrix in a bordered table.

Additional Information

- Refer to the slides as well as online resources for help.

Submit only the following file(s) according to the submission instructions.

- `index.php`