

Challenge 2: Print a Matrix

Solve the following challenge to print a matrix, i.e., a two-dimensional array.

We'll cover the following

- Problem Statement
 - Function Prototype
 - Input
 - Output
 - Sample input
 - Sample output
- Coding challenge

Problem Statement

Print a two-dimensional array of size **$n \times n$** as shown below in the form of a matrix.

Function Prototype

```
function printMat($n)
```

Input

an integer

Output

print matrix on the console

Sample input

```
$n = 3;
```

Sample output

Print a two-dimensional array of size 3×3

Print an array of size 3 x 3 as:

- The *diagonal* of the array should be filled with **0**.
- The *lower side* should be filled with **-1s**.
- *upper side* should be filled with **1s**.

Make sure to put spaces between the values and print each row in the next line

```
0 1 1 \n-1 0 1 \n-1 -1 0 \n
```

Note: In order to move a value to the next line you can use `PHP_EOL` .

0	1	1
-1	0	1
-1	-1	0

Sample Output Array

Coding challenge

Try to implement the solution by *yourself* once you have understood the *problem statement* clearly. Referring to the solution part should be your last resort.

Good luck!

```
<?php
function printMat($n) {
    //write the code for making and printing the matrix here
    //use can use \n to move numbers to next line in the matrix
    //use " " to add space between numbers in matrix
    echo "not complete";//comment out this line when you start writing code
}
?>
```



Let's move on to a quick quiz in the next lesson.

