

Assignment – 5 (PHP), Due on April 23, 2021

Create the following form, which takes inputs from the user for the length of an array of arbitrary size. The array should be initialized with random integers from 1 to 10 (you can use the `mt_rand()` function in PHP).

The screenshot shows a web interface with a header bar containing the text "Statistics ToolBox" and navigation links: "Home", "Link", "Dropdown", and "Disabled". On the right side of the header is a search bar with the placeholder text "Search" and a green "Search" button. The main content area is a large gray rectangle. In the upper left corner of this area, there is a white box with a gray border containing the following elements:

- The text "Enter size of an array:"
- A text input field with the placeholder text "Type in an integer".
- The text "Select an option:"
- A dropdown menu currently showing "Compute Mean".
- A blue "Submit" button.

The select list has three options: "1. Compute Mean, 2. Compute Median and 3. Compute Mode."

This screenshot shows the same web interface as the previous one, but with the dropdown menu open. The dropdown menu is white with a blue border and a blue highlight on the first option. It contains the following options:

- ✓ Compute Mean
- Compute Median
- Compute Mode

If you choose option 1 and press “submit”, it should compute the mean of numbers in the array:

Statistics ToolBox [Home](#) [Link](#) [Dropdown](#) [Disabled](#)

Enter size of an array:

Select an option

Compute Mean

Initialized array -->

3 1 10 8 1 8 1 7 5 4

Mean = 4.8

If you choose option 2 and press “submit”, it should compute the median of numbers in the array (the middle-most value when the array is in sorted order):

Statistics ToolBox [Home](#) [Link](#) [Dropdown](#) [Disabled](#)

Enter size of an array:

Select an option

Initialized array -->

1 9 7 7 6 10 9 6 10 4

Median = 7

If you choose option 3 and press “submit”, it should compute the mode (the number with the highest frequency in the array):

Statistics ToolBox [Home](#) [Link](#) [Dropdown](#) [Disabled](#)

Enter size of an array:

Select an option

Initialized array -->

1 5 7 8 2 4 9 9 1 2

Mode = 1

Mode = 2

Mode = 9

If there are no modes in the array (i.e., all values occur with equal frequency), then it should display there are no modes:

Statistics ToolBox [Home](#) [Link](#) [Dropdown](#) [Disabled](#)

Enter size of an array:

Select an option

Compute Mode

Submit

Initialized array -->

3 2 10 9 5

There is no mode in the set.