

## Programming assignment 4.

**Suggested due date:** Wednesday, November 1 2017 at 07:45pm

Remember:

You can remove all the variables from the workspace by writing “clear”

**Look up the description of all the functions in MATLAB by typing doc in the command window.**

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Write **2** functions to calculate the **MSS** of a given array one with running time of  $O(n)$  and one with  $O(n \log n)$ .

Request the user to enter a positive integer, and call it **n**.

1. Generate **n** random integers between -100 to 100 and save them in array **a**. (*You can use randi function in MATLAB*)
2. Print the generated array and the outputs of your two functions.