**Applied Algorithms: Benchmarking and Determining Functions**

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# Analysis

## Routine 1

## Routine 2

## Routine 3

## Routine 4

## Routine 5

# Code

I chose to not attach code per routine in the document and at my own discretion created a GitHub repository that contains the modified routines and terminal outputs for each routine all named.

<https://github.com/HawkOverHK/Applied-Algo-Assignment-1>

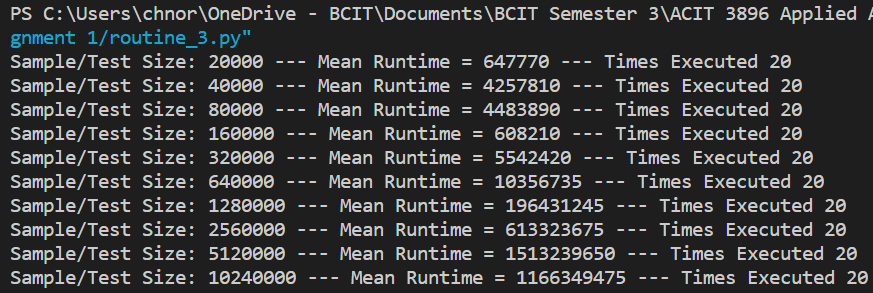
# Terminal Output(s)

Please note that all Terminal Outputs/Results are displaying the “Mean Runtime” in Nanoseconds. Results, Data and Graphs will be rounded up to be in Milliseconds

## Routine 1

A screen shot of a computer

Description automatically generated

Routine 2

Note that I ran Routine 2 twice and will have 2 sets of data and graphs to correspond to each one.

A screen shot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated

## Routine 3

A screen shot of a computer

Description automatically generated

## Routine 4

A screen shot of a computer

Description automatically generated

A screen shot of a computer

Description automatically generated

## Routine 5

A screen shot of a computer

Description automatically generated

# Additional Notes