Fenwick Software Technical Task

Brief

Create a command line program that can record numeric values and summarises them.

While the task is not representative of typical tasks at Fenwick, this task is an opportunity to exhibit your programming and design skills, and does not require knowledge of specific frameworks or libraries.

The program can be written in your preferred language and IDE/editor.

Please provide short commentary in the form of method documentation and inline code comments where appropriate, or as a separate document if desired.

Submission

Submit the completed code in the form of a git repository. Use a free service such as GitHub or Visual Studio Online and provide the URL via email to [officeadmin@fenwicksoftware.com.au](mailto:officeadmin@fenwicksoftware.com.au)

Send any questions to [officeadmin@fenwicksoftware.com.au](mailto:officeadmin@fenwicksoftware.com.au)

# Specification

The program will allow numeric values to be recorded into a text file, and allow a summary of the values to be printed

## Actions

The program will have 3 ‘actions’:

### Record

Save one or more values into a specified file

Stats.exe record *filepath* *value [value 2..value n]*

### Summary

Print a summary of the values into the console. The summary should be formatted as a text table (see examples below)

Stats.exe summarise *filepath*

### Help

Print a short informative message of how the program can be used

## Example Session

> Stats.exe help

*Informative message printed*

> Stats.exe record stats.txt 12.1

> Stats.exe record stats.txt 4.8 20.0

> Stats.exe record stats.txt 9.9

> Stats.exe summary stats.txt

+--------------+------+

| # of Entries | 4 |

| Min. value | 4.8 |

| Max. value | 20.0 |

| Avg. value | 11.7 |

+--------------+------+

## File Format

The program should store its values in a structured file format that can be appended to, and re-read later for summarising. Format the file however you desire.

## Error Handling

If the user provides an invalid command or options, print the help message.