

VGP 232 Game Tools and Pipeline

Assignment 1

Console Application

Objective:

Write a **C# Console Application** that parses a csv file:

The application will read all the command line arguments to generate the results.

The following are valid command-line arguments in the application:

- 1. -h or --help for help to output the instructions on how to use it
- 2. -i <path> or --input <path> loads the **input file path** specified (required)
- 3. -o <path> or --output <path> saves result in the **output file path** specified (optional)
- 4. -c or --count displays or saves the number of entries are in the text file (optional)
- 5. -a or --append for appending to an existing output file (optional)
- 6. -s or --sort <column name> outputs the results sorted by specified column name

Run: Assignment1.exe -i data.csv -o results.txt -c -s hp Output:

Bonus

- 7. -m or --max <column name> gives you the name and value with the highest value
- 8. -n or --min <column name> gives you the name and value with the lowest value

Run: Assignment1.exe -i data.csv -o results.txt -s maxcp -c -m hp -n attack

Error Handling:

- invalid path (path does not exist)
- invalid argument

C# Helpful links

https://support.microsoft.com/en-us/help/816149/how-to-read-from-and-write-to-a-text-file-by-using-visual-c

https://www.dotnetperls.com/sort-list



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Due date

Next class, week 2 (at the start of class 6:30pm)

Submission

Implement the answers in a new project with the name "Assignment1". This project should be submitted through committing and pushing through GIT to your VGP232 repository which you shared with the instructor.

Grading

Marks: Out of 100 (10% of final grade)

- (60) Functional: Does it compile? Does it meet the requirements and work? Does it give the correct results?
- (25) Error Handling: Does you application handle bad input? If so, does it handle failures and exceptions gracefully or does it crash?
- (15) Naming convention & Comments: Does it follow the coding standards? Are your variables and method names descriptive? Did you leave descriptive comments on methods that does not have obvious functionality?

Coding Standard

C#

https://docs.microsoft.com/en-us/dotnet/csharp/programming-guide/inside-a-program/coding-conventions

Late Assignments

After the due date, the student will no longer be able to submit their assignment and will receive a 0 as I will go over the solution in the next class.