Take Home Assignment – Beer Production
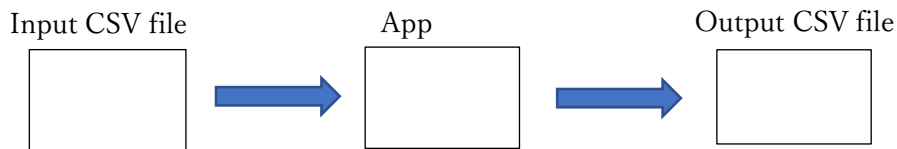
Contents

Overview of this assignment.

Write your programming code that reads the input CSV file, updates the extracted data, and write the updated data into the CSV file format as an output, using CsvHelper (https://joshclose.github.io/CsvHelper/).

Coding tools & platform

Language: C# only.

*You will use C# only if you join us. If you know one of the programing languages (Java, C++) already, you can learn grammar of C# quickly like within 1 day. Please do the assignment in C# only. Thank you for your understanding.

IDE: Visual Studio

Project template: Console App

Detailed Instructions

You **must** use CSVHelper to implement this application. Use the feature of CSVHelper for file operations and other implementations whenever possible. If you don't use CSVHelper, it won't be evaluated even if your implementation achieves all the specified functionalities.

Input:

Use another attached CSV file (Input_v1.0.csv) as an input file.

The input file includes Japanese characters. Please take it into consideration.

When you read the input file, use Attributes to map.

Output:

Output in CSV format with UTF8 BOM.

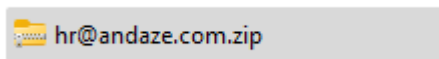| Order	Header	Content Format	Data Content
1	Grain	String	The data comes from "grain" in the input file.
2	Date	yyyy/mm/dd (e.g., 2022/09/01)	The data comes from "DATE" in the input file.
3	Manager	String Enclose strings in double-quotation marks. (Exclude the header of this column from being enclosed by double-quotations)	The data comes from "FactoryManagerName" in the input file.
4	BeerProduction	Round numbers (including integers) to two decimal places and display them up to two decimal places. (e.g., 253.50, 67.94)	The data comes from "BeerProduction" in the input file.
5	YearMean	The same as "BeerProduction".	Average of beer production for the year.
6	YearMedian	The same as "BeerProduction".	Median of beer production for the year
7	IsBeerProduct	String ("yes" or "no")	If "BeerProduction" is greater

	ionGreaterTh anYearMean	Enclose strings in double-quotation marks. (Exclude the header of this column from being enclosed by double-quotations)	than "YearMean", "yes", if not, "no".

The first three lines look like below:

Submission to us:

- Zip the following 2 files, name the Zip file as {Your email address}, and send it to hr@andaze.com.
  - Program.cs (Gather all your code in 1 file)
  - The output CSV file (name it as "Output.csv")

  E.g. if your email address is hr@andaze.com, the Zip file name would be "hr@andaze.com.zip"

  The content in the Zip file is like: