Coding test – Sorting tabular text file

# Problem description

Write code which sorts a text file containing tabular delimited data. The requirements are as below:

* The input will be as follows:
  + The full path to the file to be sorted. The file can be assumed to be UTF8.
  + The full path to the file where the results are to be written. (This file can be overwritten)
  + The delimiter used for the columns
  + Whether the file has a header row
  + The data types of the column which is to be used to sort the data
  + A zero based index of the column which is to be used to sort the data
* The output should be the sorted text file
* The following data types are to be supported for sorting:
  + String
  + Integer/Long
* There is no specific requirement for a user interface. You can use whatever style of interface you are most comfortable to drive the actual code as the interface is not relevant to this exercise.
* Optionally, implement the above with support for being able to sort on multiple columns

## Example:

### Input details

|  |  |
| --- | --- |
| Input Path | C:\testdata\unsorted\testfile1.txt |
| Output Path | C:\testdata\sorted\testfile1.txt |
| Delimiter | , |
| Has Header Row | True |
| Column to sort on | 1 |
| Column data type | String |

### Example data from a test file:

Employee Id,Name,Department

1,Test user,Engineering

2,Another user,Engineering

### Sorted data for the above example:

Employee Id,Name,Department

2, Another user,Engineering

1,Test user,Engineering

**Note: We expect you approach this test as if you were writing code in real life. There is no specific time limit imposed but as a rough guide expect to spend at least 2 hours to implement this.**