

SW Test Course (67778) - Exercise 1 (3 points)

Write a CSV to Tabular converter

Input

A CSV file containing 3 parameters separated by a comma on each line. The parameters are:

Parameter	Possible values	Description
1	1, 2	The type of the 3 rd parameter, and how to use the 2 nd parameter. 1 = string, 2 = integer
2	An integer	For a string: The length of the 3 rd parameter, in bytes. Each character takes a byte. For integer: The integer type: 1 = 8bit 2 = 16bit 4 = 32bits ... etc. (only powers of 2 are allowed)
3	Integer or string depending on the value of the first parameter	The 3 rd parameter value should match the type indicated by the first parameter

Example (filename: in.csv)

```
1,10,HelloWorld
2,1,3
2,2,256
```

Your mission, should you choose to accept it:

(Let's be realistic: you don't *really* have a choice :-).

Write a python script that accepts a CSV file as described above and print it in a text-table format.

Example (when the input is the CSV example above):

Type	Length	Value
-----	-----	-----
String	10	Hello World
Integer	8bit	3
Integer	16bit	256

Notes:

- Everything must be printed left-justified
- The script must be a single file of python type
- Name your file as this: EX1_<ID_NUMBER>.py

The script should be called with a single input parameter: the file to be parsed:

```
$ python EX1_123456789.py <input file name>.csv
```

The result should be printed to screen.

- Use Python 3.7 or higher
- Do not use any module that is not in the built-in modules of python, other than os and sys (no “import” statements other than os and sys). Specifically: no “import csv”...
- Upload your *.py script to moodle.

Submission, Testing and Scoring

- You must submit your solution by **Wednesday, March 22, before 23:55**.
- Your solution must process the provided in.csv file correctly to get the 3 points.
- Your solution must not be trivial; it should be able to deal correctly with CSV files other than the provided in.csv .

Hint

If this exercise takes you more than 2 hours, you either did not understand the exercise, or are doing something completely un-necessary. Stop and ask your friends.

We think you should be able to do it in 1 hour or even less.