CSE 101- INTRODUCTION TO COMPUTER SCIENCE

Homework #05

Due date: 28.12.2018 13:00

In this homework you have to sort all the people given in "hw4_disordered_people.txt". You will get the sort column from the user and write the ordered people in "orderedFile.txt".

Standart column order is as shown (items aren't sorted):

ID	NAME	SIR NAME	MAIL
4564765	Andria	MALLE	abc@gmail.com
246574	Andrea	DENNIS	abcc@gmail.com
454	Angeline	TOWNSEND	townsend@gmail.com
3245	Ania	DEAR	defghjklmnd@gmail.com

The column selected by the user will be placed on the first column and the order will be made according to it. Sample:

Give a Sort Metric (I = ID	N= NAME	S= SIR NAME	M=MAIL): M	
Output file will be as shown (sorted by mail):				
MAIL	ID	NAME	SIR NAME (this line must be added)	
abc@gmail.com	4564765	Andria	MALLE	
abcc@gmail.com	246574	Andrea	DENNIS	
defghjklmnd@gmail.com	3245	Ania	DEAR	
townsend@gmail.com	454	Angeline	TOWNSEND	

Give a Sort M	etric (I = ID	N= NAME	S= SIR NAME	M=MAIL): N
Output file will be as shown (sorted by name):				
NAME	ID	SIR NAME	MAIL	(this line must be added)
Andrea	246574	DENNIS	abcc@gmail.com	
Andria	4564765	MALLE	abc@gmail.com	
Ania	3245	DEAR	defghjklmnd@gmail.co	om
Angeline	454	TOWNSEND	townsend@gmail.com	

The order of ascii table will be used in the sorting. Detailed in the next page.

Tips:

- If tou need you can use itoa function to convert integer to char array: http://www.cplusplus.com/reference/cstdlib/itoa/
- There is no restriction to use of c libraries.

Rules:

- Console inputs must be accept upper case character "N, M,I,S". Can be accept lower case character "n, m, i, s"
- Output file name: orderedFile.txt
- Input file name is: hw4_disordered_people.txt
- Upload your files <u>only</u> in a .zip file on Moodle. The zip name should be in the same in the form of: number_name_surname (g.e. 181041001_abdullahsalih_bayraktar.zip).
- Zip file can contain source files with "c" and or "h" extension. No other files excluding hw4_disordered_people.txt (look at next rule).
- You can add a working "hw4_disordered_people.txt" file in zip. (It is chanced because it can be possible that your homework is not finish and work only with unique input file).
- main file name: student_id_main.c (e.g. 181041001_main.c)
- If you upload wrong file formats on Moodle. You will lose point. Be careful!

If you have any question about homework, send e-mail to: asbayraktar@gtu.edu.tr

Good Luck!

Update notes:

V1.0.1 Date: 24.12.2018

- No major or minor update, Tables are extended to better understand.
- Tips added.
- Submission rule extended.
- Added main file name rule. Same as Moodle.

Sorting Example:

Given char arrays: Aa, aaa, ve Aaa, bb, a, c, a a, 112, 45

Character on asci table (this table is constructed from ascii table only for this example.)

Character	Ascii (Decimal)
A	65
a	97
b	98
SPACE " "	32
С	99
1	49
2	50
4	52
5	53

Unordered char arrays:

Sample char array	As Asci Number
Aa	65 ,97
aaa	97, 97, 97
Aaa	65 ,97
bb	98, 98
а	97
С	99
a a	97, 32, 97
112	49, 49, 50
45	52, 53

Ordered char arrays:

Sample Char array	As Asci Number
112	49, 49, 50
45	52, 53
Aa	65 ,97
Aaa	65 ,97, 97
а	97
aa	97, 32, 97
aaa	97, 97, 97
bb	98, 98
С	99