

This assignment is an exercise on using arrays.

Write a C program to do the following tasks:

- 1) Create a text file ***rains.txt***, which contains the rain accumulation for the months of 1- 4 for the last 10 years in **ml**.
- 2) Each line in the file contains:
year, 4 integer readings for the rain fall in the months **Jan** through **Apr** as shown below.

```
2011    320  140  80  23
2012    270  210  30  110
.
.
.
2020    160  170  105  96
```

- 3) Define:
int *years*[10];
int *quantity*[10][4];
float *years-sum*[10];
- 4) Write a **void** function **Fill_Matrix** which reads and fill the matrices *years* and *quantity* from the text file.
- 5) Write a **void** function **Print_Matrix** which receives *years* and *quantity* and prints the above table.
- 6) Write a **void** function **Compute_Sum** which receives *years* and *quantity* and fill the array *years_sum*.
- 7) Write a **void** function **Sort** which receives the matrix *years_sum* and sorts the array *years_sum* on descending order.(Each time you do the switching when sorting the array *years_sum* you should do the same switching in the corresponding rows in the matrix *years*).
- 8) Write a void function **Print_Average** which receives the array *years_sum* and prints the report:

Year	The 4 months readings	The 4 months Sum
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.	.	.
.	.	.
.	.	.

Notes:

- Submit your assignment through Ritaj webpage by replying to message **142-Ass3**.
- No assignment will be accepted through a regular message on Ritaj webpage, or by an Email.