

CS 2213-001 Advanced Programming

Instructor [Dr. Turgay Korkmaz](#)

Homework 4

Due date: check BB

!!!! NO LATE HOMEWORK WILL BE ACCEPTED !!!

Total 5 points

(From our textbook ch-2)

Programming Exercise 12 “Design a new type called payroll...” and Exercise 13 “Write a Program that generates the weekly payroll...”

Hint: If you go to class web page and follow the links “programs from the textbook” → 02-Data-Types-in-C/ you will find some already implemented code which you can modify to complete this hw.

It is not mentioned in the question, but from now on, you should make sure you will release (free) the dynamically allocated memories if you allocate any in your programs.... So, before submitting your program, run it with `valgrind` to see if there is any memory leakage... Also if you need to debug your program, compile your programs with `-g` option and then run it with `gdb` and/or `ddd`.

What to return: !!!! NO LATE HOMEWORK WILL BE ACCEPTED !!!

1. Follow the problem solving methodology, and solve the problem(s). Then convert your solution(s) to a C program. Include `/*` comments `*/` so that we can understand your solution(s). You can name your program as `hw04.c`
 2. Compile and run it. Copy/paste the result in an output file, say `out4.txt`. Or simply use script thing as in `hw2....`
- `/*` Don't forget to include comments about the problem, yourself and each major step in your program! `*/`

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You must submit your work using Blackboard Learn and respect the following rules:

- 1) All assignments must be submitted as either a zip or tar archive file unless it is a single pdf file.

- 2) Assignments must include all source code.
 - 3) Assignments must include an output.txt file which demonstrates the final test output run by the student.
 - 4) If your assignment does not run/compile, the output.txt file should include an explanation of what was accomplished, what the error message was that prevented the student from finishing the assignment and what the student BELIEVES to be the underlying cause of the error.
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