

ES 112 Algorithms and Computer Programming

2020 Spring – Homework 3 – while

1) (30p) Write a program which reads 10 different integers from the user and finds and prints

- a) Minimum element
- b) Sum of all elements and
- c) Average of elements.

Note: do not use arrays to store the user-entered integers.

2) (70p) Write a program which reads the number of coins a person has in his pocket, and calculates and prints how much money this person has at the end of the program.

Assume that there are only 4 types of coins: 50 kurus, 25 kurus, 10 kurus and 5 kurus.

Quit when -1 is entered for coin type.

Also assume that the user never enters a valid coin type two times. So, any valid type is entered only once or never. You don't need to check whether all types have been input or not. Just quit when -1 arrives for coin type.

Note: The money amount should be printed as whole numbers and change (for example, 5 lira and 55 kurus)

(Hint: modulus operator)

Example 1:

Enter the coin type: 70
No such coin, enter 5, 10, 25 or 50.
Enter the coin type: 5
How many: 6
Enter the coin type: 50
How many: 3
Enter the coin type: -1
You have 1 lira and 80 kurus.

Example 2:

Enter the coin type: 25
How many: 8
Enter the coin type: 10
How many: 6
Enter the coin type: 40
No such coin, enter 5, 10, 25 or 50.
Enter the coin type: -1
You have 2 lira and 60 kurus.

Submission information:

Submit your .c files as a single archive (rar) file: YOUR_FULLNAME_Hw3.rar.

The archive should include YOUR_FULLNAME_Q1.c, YOUR_FULLNAME_Q2.c.

Late submissions will not be accepted!

Please do your own work!