

C - Assignment 03 (100 pts)

Notes

Do the following for each exercise

- Create a `main()` function
- Use good variable names and coding style
- Include some simple comments

Exercise 01 (35 pts)

Write an infinite while loop (`while (true)`) that allows the user to input grades. At the end, it should display the average of the grades, as well as the corresponding grade letter. The loop should terminate when the user inputs 'n'. If the user inputs 'y', the loop will allow the input of another grade. Here is a sample input/output:

```
Input another grade? (y / n): y
Input grade: 76
...
Input another grade? (y / n): n
The average is 88 (B)
```

Note: think about the pseudocode first, and the type of each variable that is needed

Exercise 02 (15 pts)

Repeat Exercise 01, but change the loop condition to `while (repeat != 'n')`
Update the program accordingly so that it behaves in the same way as in Exercise 01.

Exercise 03 (25 pts)

Using a for loop, let the user input 10 positive integers. The program should determine the largest one and print it after the loop ends. You should use 2 variables:

- number: the current number input to the program
- largest: the largest number found so far

Exercise 04 (25 pts)

Write a program that displays the sum, the sum of the squares and the sum of the cubes of all natural numbers from 1 till any number entered by the user (use a for loop).