

Learning objective 02

Task 21. Attached is the input file "numbers.txt" which contains exactly 25 numbers separated by a space, while behind the last number is the enter character. Your task is to load 5 numbers from the input file into a line, then copy those 5 numbers from the line into the output file and repeat this until you have exhausted 25 numbers from the input file. The output file should have the same content as the input file.

Task 22. Attached is the input file "numbers.txt" which contains exactly 25 numbers separated by a space, while behind the last number is the enter character. Your tasks are as follows:

- Load all numbers into the vector.
- Copy the numbers from the vector to the list.
- Multiply all numbers in the list by three.
- Print all items from the list.

Task 23. Attached are three C ++ files, two invalid and one correct. Write a program that will check if the C ++ file is balanced in parentheses '{', '[' and '('. The check algorithm is as follows:

- a) Pass the file character by character.
- b) If the sign is an opening bracket, push it onto the stack.
- c) If the sign is a parentheses, remove the sign from the stack and compare whether they are equal. If they are not, the file is invalid.
- e) If in the end there is nothing left on the stack, the file is invalid.

Use the above algorithm and print for each of the three files in the attachment whether it is balanced or not.