University of BATNA 2
Faculty: Mathematics and Computer
Department: Common Core in Mathematics and Computer Science
1st Year CC-MCS 2024-2025 academic year

Series of 5th supervised exercises

Exercise 1

To calculate a student's average, write an algorithm using the following steps:
  a. Read and save 8 marks from 8 modules in a vector whose coefficients are (2,3,1,2,4,2,1,3).
  b. Calculate and display the student's average without taking module coefficients into account.
  c. Calculation and display of the student's average taking module coefficients into account.

Exercise 2

Let TAB be an array of N real numbers (N does not exceed 120).

  1- Write an algorithm that finds the minimum and maximum values and their positions in the TAB array.

  2- Write an algorithm that adds the value 15 to all even-numbered values and subtracts the value 20 from all odd-numbered values.

  3- Write an algorithm that splits TAB into two arrays, TAB_POS and TAB_NEG, containing positive and negative numbers respectively.