Exercises Homework

7. Algorithmisation Practice #2

Ján Dugáček

November 7, 2018

Ján Dugáček 7. Algorithmisation Practice #2

イロト イヨト イヨト イヨト

3

Exercises Homework

Table of Contents





Ján Dugáček 7. Algorithmisation Practice #2

イロン イ団 と イヨン イヨン

Э



- Write a function that computes the lowest common denominator of two integers (Euclid's algorithm)
- Write a function that shuffles a vector (swaps a reasonable number of random elements)
- Write a function that erases elements with a certain value from a vector
- Use std::sort to sort a vector of vectors, vector with lowest number of elements goes first

(D) (A) (A) (A) (A)

Advanced Exercises

- Write a function that computes the determinant of a matrix
- Write a function that takes one argument mult and returns a lambda that multiplies its argument by mult
- Create a function that can print a function of type int somebodyDoSomething(int val) by printing its x and f(x) from 0 to 10
- **9** Write a function that computes the eigenvalues of a matrix

(D) (A) (A) (A) (A)



- Write a function that takes three arguments by reference and shuffles them
- Write a function that computes the area of an ellipse using the Monte Carlo method
- Oreate operators -, *, / and ^ that work on strings interpreted as numbers

イロト イポト イヨト イヨト

- Write a program that reads a file containing a table where one column is x and the other column is f(x) and writes a file that adds lines with values of x that were missing in the original one and interpolated values of f(x)
- You have two weeks to do it

→ Ξ →

Image: A math a math