# Computer science
## Lab #3

BScv

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## ⌈ Function, array, matrix ⌉

*NB : use good practice for naming and write code [1]!!!*

## ⌞ Problem 1 ⌝

Download data from this place : `https://raw.githubusercontent.com/mwaskom/seaborn-data/master/titanic.csv` as *.csv file.

Create an object which allow to stock the allowing attributes :

- survived

- pclass

- sex

- age

- sibsp

- parch

- fare

- embarked

- class

- who

- adult_male

- deck

- embark_town

- alive

- alone

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[1]`https://google.github.io/styleguide/cppguide.html`

Choose the great type for each attribute considering data in csv file.
In your main file, create a std::vector of your object, which object should contain a line of the file. Use string, ifstream object in order to manipulate data in the file. Be carefull when data is missing, you have to add default or special values.

## Problem 2

Create an object which allows to process the data store in your previous vector of object. Add to this class, the following functions :

- mean age value

- number alive

- histogram of embarked town

Test all this function in your main function.