Project 2 (18%)

C-strings utilities, C++ class String with stack/heap storage of data

1 part. C-strings 4%

Theory: Stroustrup. Programming Principles and Practice, 2$^{nd}$ edition. Sections 18.6, 18.7.

Practice: Stroustrup. Programming Principles and Practice, 2$^{nd}$ edition. Exercises 18.1, 18.2, 18.3, 18.7, 27.1 (except strcmp). Weight of each exercise is 0.8%. All solutions have to be tested with unit-tests library CATCH2.

2 part. C++ class String with stack/heap storage of data. 14%

Stroustrup. The C++ Programming Language, 4$^{th}$ edition. Section 19.3. The class has to be tested with unit-tests library CATCH2.