

# Homework9

Using classes and template functions in applications.

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## 1 Task:

1. Create and implement an application that allows operations with matrices squares with elements of different types: integers, real numbers, complex numbers.

The application must allow the following operations:

- creating matrices,
- matrix restoration,
- saving matrices,
- elementary operations with matrices (addition, subtraction, multiplication, rise to power).

A template class will be used.

2. Create and implement an application that uses template functions for sorting strings with different elements: numbers, strings and square matrices (two matrices are compared according to their norm).

Application must allow creation strings, sorting and displaying them.