**Refactoring Homework**

**Refactor the C# code from the Visual Studio solution Matrica.sln to improve its internal quality.**

**You might follow the following steps:**

1. Make some initial refactorings like:
   * Reformat the code.
   * Rename the ugly named variables.
2. Make the code testable.
   * Think how to test console-based input / output.
3. Write unit tests. Fix any bugs found in the mean time.
4. Refactor the code following the guidelines from this chapter.
   * Do it step by step.
   * Run the unit tests after each major change.