COMPUTER SCIENCE I

Exercise 3

- 1. Write a program which checks if arbitrary segments a, b and c can be used to build a triangle. The program then should find what kind of triangle it is (equilateral, right-angled, isosceles). Variables a, b and c should be declared as global and their value should be read in appropriate function.
- 2. Add to the program a function which finds the longest side of the triangle. The length should be returned as the function return value. Call the function in main function and print the result.
- 3. Write a program calculating value of the factorial of n. Use the for loop and do not use a function. Find the maximum value of n for which the result can be stored using int type without truncation.
- 4. Modify the program from previous point in such a way that main function contains only calls to three functions: ReadN(), Calculate() and PrintN(). Variable n can be declared as a global one.
- 5. Modify the program in such a way that variable n is declared as a local variable inside main function.
- 6. Modify program in order to use while loop instead of for loop.