#### Informatik - AS19

# Exercise 1: The First C++ Program

Handout: 16. Sep. 2019 06:00

Due: 23. Sep. 2019 18:00

### Task 1: Hello World

#### Open Task

#### Your task

Write a program hello.cpp that outputs Hello World!.

## Task 2: Multiply with 29

#### Open Task

#### Your task

Write a program mul29.cpp that reads an integer a from the standard input and outputs  $29 \cdot a$  on standard output. To compute the value, your program may only use addition and assignment operations. Try to use as few additions as possible, but no more than 27. Usage of loops or other control flow operations is not allowed.

Try to explain a friend how you would do that, say with paper and pencil, in the general case: given positive integer numbers x and y, compute  $x \cdot y$  using only additions (and a bit of storage).

**Remark:** If you do not have any programming experience with C++, we suggest that you type the first programs entirely manually and do not modify pre-built programs. So you can internalize the structure and syntax of programs and you learn a lot of small details from the very beginning. If you solely work with copy- & paste, you will have difficulties later with writing down error-free programs or parts thereof without the assistance of a compiler.

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