

Excercise Sheet 1

Exercise 1.1. Determine the correct data types of the following expressions:

- a) `'x'`
- b) `'\033'`
- c) `0.123456f`
- d) `512UL`
- e) `0x10F`
- f) `2e+10`
- g) `1.2345678`
- h) `0101`
- i) `0xaL`

Exercise 1.2. Write the following macro definitions:

- a macro `EULER_E` that defines Euler's constant 2.718281828
- a macro `LF` that stands for line-feed, i.e., the `'\n'` character
- a macro `ALERT` that emits a beep by calling `putchar()` with argument `'\a'` (char code 7)
- a macro `DOUBLE` that multiplies its input value by 2 and returns the result
- Correct the definition of the following two macros, and put them into your file as well:
 - `#define MIN(a,b)((a)>= (b))? (a): (b)`
 - `#define Area(a,b)a*b`
 - `#define FIRST = 1`

Put all your definitions into a `.h`-file and make sure that including it twice can be done without a compiler error.