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

1. ’x’ - **char**
2. ’\033’ - **char**

c) 0.123456f - **float**

1. 512UL - **unsigned long int**
2. 0x10F - **float**

f) 2e+10 - **long / float if it is too large**

g) 1.2345678 - **float / double**

h) 0101 - **int (in octal form)**

1. 0xaL - **int (in hexadecimal form)**

**Exercise 1.2.** Write the following macro definitions:

* + a macro EULER\_E that defines Euler’s constant 2.718281828

#define EULER\_E 2.718281828

* + a macro LF that stands for line-feed, i.e., the ’\n’character

#define LF ‘\n’

* + a macro ALERT that emits a beep by calling putchar() with argument ’\a’(char code 7)

#define ALERT (putchar(‘\a’))

* + a macro DOUBLE that multiplies its input value by 2 and returns the result

#define DOUBLE(a) (a\*2)

* + Correct the definition of the following three 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.