

# Complex numbers

<b>Difficulty:</b>	Medium
<b>Requirements:</b>	Complex data types
<b>Aims:</b>	Working with structs

A *complex number*  $a + bi$  can be handled as a composite of two real numbers (real part  $a$  and imaginary part  $b$ ).

- Write a program that is able to read and print *complex numbers* and stores them in an appropriate data structure.  
The output should be in the form  $a + bi$ , but you can ask to input  $a$  and  $b$  separately.
- **Experts:** write a function that takes a *complex number* as an argument and returns its absolute value.

## Hints

- **Experts:** You have to pass a *complex number*, but the return value is a real number.