

This document contains all the non-coding exercises of Chapter 2 of C++ Primer.

Exercise 2.1

The different integer types vary in their minimum bit sizes and so their minimum value range:

`short` 16 bits gives a value range of $-32768 - 32767$.

`int` 16 bits gives a value range of $-32768 - 32767$.

`long` 32 bits gives a value range of $-2147483648 - 2147483647$.

`long long` 64 bits gives a value range of $-9223372036854775808 - 9223372036854775807$.

`unsigned` types do not include negative values, that is, values ≥ 0 , for example if we consider `unsigned int` the value range is $0 - 65536$. Of course a `signed` type takes negative values.