std::numeric_limits

Defined in header <limits>

```
template< class T > class numeric_limits;
```

The numeric_limits class template provides a standardized way to query various properties of arithmetic types (e.g. the largest possible value for type `int` is `std::numeric_limits<int>::max()`).

This information is provided via specializations of the numeric_limits template. The standard library makes available specializations for all arithmetic types:

Defined in header <limits>

```
template<> class numeric_limits<bool>;
template<> class numeric_limits<char>;
template<> class numeric_limits<signed char>;
template<> class numeric_limits<unsigned char>;
template<> class numeric_limits<wchar_t>;
template<> class numeric_limits<char8_t>;                (since C++20)
template<> class numeric_limits<char16_t>;               (since C++11)
template<> class numeric_limits<char32_t>;               (since C++11)
template<> class numeric_limits<short>;
template<> class numeric_limits<unsigned short>;
template<> class numeric_limits<int>;
```

std::numeric_limits<T>::min()

std::numeric_limits<T>::max()

std::numeric_limits<T>::lowest()

```
#include <limits>
```

Floating point

-3.40282e+38

0

1.17549e-38

3.40282e+38

lowest

min

max

Signed Integer

0

-32768

32767

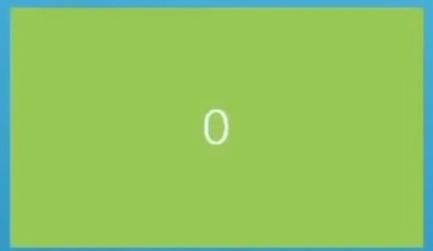
lowest

min

max

Unsigned Integer(Short)

0



0

65535

lowest

min

max

```
#include <limits>
```