Converting Strings to Numbers Solutions

Converting Between Numbers and Strings

- C++ already has many ways to convert between strings and numbers. Explain briefly why it needs another one
  - The existing options have drawbacks when performing high-throughput processing

from_chars()

- Write a simple program which uses from_chars() to convert an integer stored as an std::string to the same number stored as an int

from_chars() with Optional Argument

- Modify your solution to the previous exercise to use base 16 for the conversion

- Write another program which converts a floating-point number stored as a string to the same number stored as a double

from_chars()
Return Type

- Modify your solution so that it handles conversion errors

- Check your program works correctly when
  - The std::string represents a valid integer
  - The std::string represents a partially valid (corrupted) integer
  - The std::string does not represent an integer