

# Optional Type Exercises

# std::optional

- Briefly describe std::optional

# Accessing data in std::optional

- Write a simple program which
  - Creates an empty std::optional object
  - Stores some data in the object
  - Displays the value of the data

# Optional Return Value with std::optional

- Alter the str2int() function so that it now returns std::optional
- Make the necessary changes to main()
- Check that your program compiles and runs correctly
- Make sure that errors are handled correctly
- Use both forms of syntax for checking and accessing an std::optional object

# Applications of std::optional

- Describe some situations where std::optional could be useful

# Disadvantages of std::optional

- Give some disadvantages of std::optional