

# **Tutorial 2: Intro to C++**

## **Review: C++ Intro**

**What are the differences between C++ and C?**

**What are the differences between C++ and Java?**

**How can object oriented programming be used in C++?**

**How can generic programming be used in C++?**

## **Programming Concepts: Streams**

Look at `hello_world.cpp` and `input.cpp` from the Week1 examples folder as a reference.

**What is `iostream`?**

**What is a stream?**

**What is `std`?**

**What is `boost`?**

**What is `cout/cerr` and how can it be used to output different data types?**

**What is `cin` and how can it be used to input data?**

**How can data be read from/written to files using streams?**

## **Compilation: C++14**

**How do we compile a C++ program to use C++14?**

## **Errors: Warnings**

What is a compiler warning and how do we check for them?

What are some common examples of compiler warnings that will crash your program?

**Debugging: None this week**

## **Exercises:**

Write a program to represent a linked list of ints in C++. What are the classes you need?  
How will they be different to the choices you would make in C?