Interfacing to C Solutions

Name Mangling

- What is meant by "name mangling"?
  - The C++ compiler will change the name of a function by encoding the argument details into it
  - This is needed to implement function overloading

- Why is name mangling significant when interfacing with C?
  - The C compiler does not use name mangling

- What do we need to do to avoid having issues with name mangling?
  - Use the extern "C" directive
  - This instructs the compiler not to mangle function names
  - The resulting code will be compatible with C

Exporting to C

- Write a simple C++ function

- Write a simple C program that calls your function

Importing from C

- Write a C function that takes an array argument and prints out all the elements in the array

- Write a C++ program that calls your function using std::vector