

Standard Library Array Exercises

std::array

- What are the main advantages of std::array over built-in arrays?
- In what situations would it be preferable to use a built-in array instead of either an std::array or std::vector?

std::array usage

- Write a program which
 - Creates and initializes an std::array
 - Prints out an element of the array
 - Modifies an element of the array and prints out the result

Looping

- What forms of loops are available with `std::array`?
- Modify your program from the last exercise to print out the elements of the `std::array`. Use all the forms of loop which are supported
- Modify your program to assign one `std::array` object to another. Print out the elements of the assigned-to array

std::array interface

- Why the interface of std::array not exactly the same as for std::vector?

std::array as function argument

- Write a function which takes an std::array and prints out its elements
- Write an overload of this function which takes a built-in array
- Write a program to test your functions
- What happens if you pass an std::array with the wrong number of elements? Explain your results