

Copying Algorithms

Exercises

copy()

- What does copy() do?
- What arguments does copy() take?
- Write a simple program that uses copy()
- Write the equivalent code without using copy()

copy_if()

- What does copy_if() do?
- What arguments does copy_if() take?
- Write a simple program that uses copy_if()
- Write the equivalent code without using copy_if()

`copy_n()`

- What does `copy_n()` do?
- What arguments does `copy_n()` take?
- Write a simple program that uses `copy_n()`
- Write the equivalent code without using `copy_n()`

transform()

- What does transform() do?
- What arguments does transform() take?
- Write a simple program that uses transform()
- Write the equivalent code without using transform()

Overload of transform()

- What does the overloaded version of transform() do?
- What arguments does this version of transform() take?
- Write a simple program that uses the overloaded version of transform()
- Write the equivalent code without using transform()

- What do `replace_copy()` and `replace_copy_if()` do?
- What arguments do they take?
- Write a simple program that uses these functions. Print out the original vector and check whether it has changed
- Write the equivalent code without using `replace_copy()` and `replace_copy_if()`

`_copy()` versions of algorithms

- What kind of algorithms have `_copy()` versions?
- What does the `_copy()` version of an algorithm do?
- Why is this useful?