Write Algorithms Solutions

replace()

- Describe the replace function
 - replace() changes all elements with a given value to have another value
- What arguments does replace() take?
 - replace() takes an iterator range, and the old and new values
- Write a simple program that uses replace()
- Write the equivalent code without using replace()

replace_if()

- Describe the replace_if function
 - replace_if() changes all elements for which a predicate is true to have another value
- What arguments does replace_if() take?
 - replace_if() takes an iterator range, the predicate function, and the new value
- Write a simple program that uses replace_if()
- Write the equivalent code without using replace_if()

replace_copy()

- Describe the replace_copy function
 - The same as copy(), but the data is copied to a destination instead of overwriting the original elements
- What arguments does replace_copy() take?
 - replace_copy() takes an iterator range, the destination, and the old and new values
- Write a simple program that uses replace_copy()
- Write the equivalent code without using replace_copy()

replace_copy_if()

- Describe the replace_copy_if function
 - The same as copy_if(), but the data is copied to a destination instead of overwriting the original elements
- What arguments does replace_copy_if() take?
 - replace_copy_if() takes an iterator range, the destination, the predicate function, and the old and new values
- Write a simple program that uses replace_copy_if()
- Write the equivalent code without using replace_copy_if()