## Lab 4.5.2 Text manipulation: find and replace

### Objectives

Familiarize the student with:

- working with multiple strings to combine into a single result.

### Scenario

A common action when editing text is to replace an expression or word with yet another expression.

Write a program that will read three lines of text. In the last line read replace all occurrences of the expression in the first line with the expression in the second line.

Make sure that changing an expression to a similar expression will not cause your program any problems.

```cpp
#include <string>
#include <iostream>

int main()
{
    std::string from;
    std::getline(std::cin, from);

    std::string to;
    std::getline(std::cin, to);

    std::string sentence;
    std::getline(std::cin, sentence);

    // change all occurrences of 'from' into 'to' in the sentence

    std::cout << sentence << "\n";
}
```

### Example input

```
John
Mary
John had a little lamb
```

### Example output

```
Mary had a little lamb
```

### Example input

```
difficult problems
opportunities to grow
A software engineer may encounter many difficult problems
```

### Example output

```
A software engineer may encounter many opportunities to grow
```

## Example input

```
Linux
GNU Linux
Some prefer Linux over Windows
```

## Example output

```
Some prefer GNU Linux over Windows
```