

String Operations

Exercises

- Give some examples of `std::string` operations

- Explain how to obtain a C-style string from a `std::string` variable
- When might this be useful?

- Convert the code into a working program. At the end of the program, print out the strings

```
string str {"Hello world"};  
str[1] = 'a';  
string s1 = str.substr(6);  
string s2 = str.substr(6,2);
```

- Explain what the code does and how it works
- Convert it into a working program which prints out str

```
string str {"Hello world"};
size_t pos = str.find('o');

if (pos != string::npos) {
    str[pos] = 'p';
}
else {
    cout << "Could not find the search string\n";
}
```

- Explain what the `std::string` member function `rfind()` does
- Repeat the previous exercise but using `rfind()` instead of `find()`. What result do you expect?

- Explain what the code below does
- Convert it into a working program
- What output do you expect?

```
string vowels {"aeiou"};  
cout << str.find_first_of(vowels) << endl;  
cout << str.find_last_of(vowels) << endl;  
cout << str.find_first_not_of(vowels) << endl;  
cout << str.find_last_not_of(vowels) << endl;
```