

# Constexpr If Exercises

# Constexpr If

- Briefly describe constexpr if

# Runtime If Statement

- Explain why the following code does not compile

```
template<typename T>
string get_string(const T& arg) {
    if (std::is_same<std::string, T>::value)    // Replaced by "true" if T is a string, else "false"
        return arg;
    else
        return to_string(arg);
}
```

# Runtime If Statement

- Explain why the following code does not compile

# Constexpr If Statement

- Explain how constexpr if can solve this problem
- Write a simple program to check your solution

# Advantages of Constexpr If

- List some alternatives to using constexpr if and explain the advantages of using constexpr if