

Constexpr and Lambda Expressions Solutions

constexpr Lambda in C++17

- What are the requirements for a lambda expression to be constexpr?
 - All captured variables must be initialized from constant expressions
 - The body of the lambda expression can be executed at compile time
- Write a simple program with a constexpr lambda which is called at compile time

Implicit constexpr Lambda in C++17

- What does it mean for a lambda expression to be implicitly `constexpr`?
 - A lambda expression need not be declared `constexpr`
 - If it meets the requirements to be `constexpr`, it will be regarded as `constexpr`
- Alter your previous solution so that the lambda expression is implicitly `constexpr`

constexpr if and Lambda Expressions

- Can we use constexpr if in a lambda expression?
 - Yes, provided all the expressions in the if statement are constexpr
- Does the lambda expression need to be constexpr?
 - No, only the expressions in the if statement need to be constexpr
- Write a simple program with a lambda expression that uses constexpr if