Quiz 2 Lambda Functions

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- 1. Which of the following two statements best describes a *lambda function*?
 - a) It is an unnamed function that returns a void.
 - b) It is an unnamed function that can have any return type.
 - c) By default, it is a const function whose state cannot be modified.
 - d) It is always a const function.
- 2. Which one of the following is true regarding lambda functions?
 - a) An explicit return type in the declaration is not needed.
 - b) Using the keyword *mutable* allows the lambda's state to be modified.
 - c) Captured variables are always passed by value.
 - d) A lambda's captured variables cannot be modified in the body of the lambda function.
- 3. What are the top three advantages of using lambda functions in code?
 - a) They can improve readability of application code.
 - b) They improve code efficiency.
 - c) They can be used instead of function objects as arguments to STL algorithms.
 - d) They are useful when configuring applications.
- 4. What is a nullptr? Give one answer
 - a) It is a null pointer constant.
 - b) It is the same as the C NULL macro.
 - c) It is a global C++ pointer.
 - d) It is an integer whose value is 0.
- 5. How would you characterise nullptr? Which are true?
 - a) It resolves ambiguities inherent in C and C++.
 - b) It resolves the overloading pointer and integer syndrome in function calls.
 - c) std::nullptr t converts to all pointer types.
 - d) nullptr cannot be used with templates.
- 6. What is static_assert?
 - a) Is check that static variables have been initialised.
 - b) It is a compile-time check on the validity of a boolean condition.
 - c) It is a run-time checker.
 - d) Is it the same as the Cassert macro.

- 7. Which of the following statements concerning <code>static_assert</code> is true?
 - a) It leads to compile-time errors.
 - b) It may appear at block scope.
 - c) It may not appear inside a class body.
 - d) It only works with constant expressions and string literals.