## 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 C assert macro.

- 7. Which of the following statements concerning static\_assert 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.