

# Algorithms and Execution Policies Solutions

# Algorithms and exceptions

- Write a program which calls a C++11 algorithm function with a callable object
- Modify the program so that the callable object throws an exception which is handled in a catch block by the caller
- Write a similar program in which the algorithm function uses an execution policy

# Algorithms and exceptions

- Explain the difference in the results
  - In the first case, the exception thrown by the callable object passes from the algorithm function to its enclosing scope
  - The exception handling mechanism detects the exception and handles it in the normal way
  - In the second case, the algorithm function calls `std::terminate()`, which causes the program to terminate immediately