

# String View Caveats Solutions

# std::string\_view

## Caveats

- Is it safe to use std::string\_view for storage or to return data?
  - A std::string\_view object does not own its data
  - A std::string\_view object has no control over its data's lifetime
  - Its pointer will dangle if the "borrowed" memory is released
  - This is only safe if the data is valid throughout the std::string\_view object's lifetime

# std::string\_view and rvalues

- What happens if an std::string\_view variable is initialized from a temporary object?
  - The std::string\_view's reference will dangle
- Write a simple program to demonstrate your answer

# Conclusions

- Can std::string\_view only be used safely for function arguments?
  - std::string\_view can be used for variables, data members or container elements
  - However, the programmer is responsible for making sure that the data is valid for the lifetime of the std::string\_view object