

Extern Templates Solutions

Template bloat

- What is meant by "template bloat"?
 - A template is instantiated with the same type parameters in different source files
 - The compiler has to generate the same code for it in each file
 - This increases compilation time and results in larger object files
- What C++11 feature helps avoid template bloat?
 - With "extern" templates, the template is only instantiated once
 - Instead of generating other instantiations with the same type parameters, the compiler provides a "reference" to this single instantiation

extern keyword

- Write a simple program that demonstrates the use of the "extern" keyword with a variable

extern template

- Write a simple program that uses an extern template