Shared Data Initialization Solutions

Singleton class

- What is meant by a Singleton class?
 - A Singleton is a class which has only one global instance in the program
- Describe briefly how a Singleton class is implemented
 - The copy and move operators are deleted
 - A global function is called to get the instance of the class
 - If the instance has not been initialized, the function initializes it before returning it
 - Otherwise, the function returns the instance directly

Singleton class

- Implement a Singleton class, making sure it is threadsafe
- Write a multi-threaded program to test your class