- Exercise

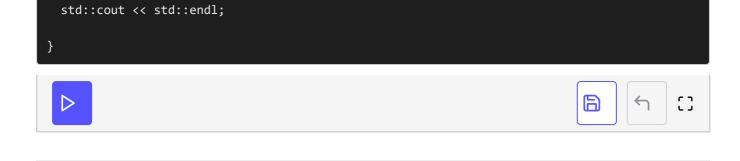
In this exercise, you must make the singleton thread-safe.

```
we'll cover the following ^
• Task
```

Task

The classical implementation of the singleton pattern in the code below is not thread-safe. Use the function std::call_once in combination with the
std::once_flag to make MySingleton thread-safe.

```
#include <iostream>
                                                                                           G
class MySingleton{
  private:
    static MySingleton* instance;
    MySingleton()= default;
    ~MySingleton()= default;
  public:
    MySingleton(const MySingleton&)= delete;
    MySingleton& operator=(const MySingleton&)= delete;
    static MySingleton* getInstance(){
      if (!instance){
        instance= new MySingleton();
      return instance;
};
MySingleton* MySingleton::instance= nullptr;
int main(){
  std::cout << std::endl;</pre>
  std::cout << "MySingleton::getInstance(): "<< MySingleton::getInstance() << std::endl;</pre>
  std::cout << "MySingleton::getInstance(): "<< MySingleton::getInstance() << std::endl;</pre>
```



You will the solution to this task in the next lesson.