





```
class person(mutex)
public:
    person() = default;
    std::string get_first_name() const
        return first_name;
    void set_first_name (std::string_view new_first)
        first_name = new_first;
    // Repeat for last name
private:
    std::string first_name, last_name;
```

```
class person
public:
    person() = default;
    std::string get_first_name() const
    {
        std::scoped_lock _ (mutex);
        return person_internal.get_first_name();
    }
    void set_first_name (std::string_view new_first)
    {
        std::scoped_lock _ (mutex);
        person_internal.set_first_name (new_first);
   }
    // Repeat for last_name
private:
    struct person_internal;
    std::mutex mutex;
    mutable person_internal person_internal;
};
template<>
struct is_sync<person> : std::true_type {};
```











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IMPIICIT

shared mutex





person(mutex

set first name

std::string

get_first_name()

first name;

(std::string_view

new_first;

first name,

name cast

last name;



person()

new first)

default;



first name

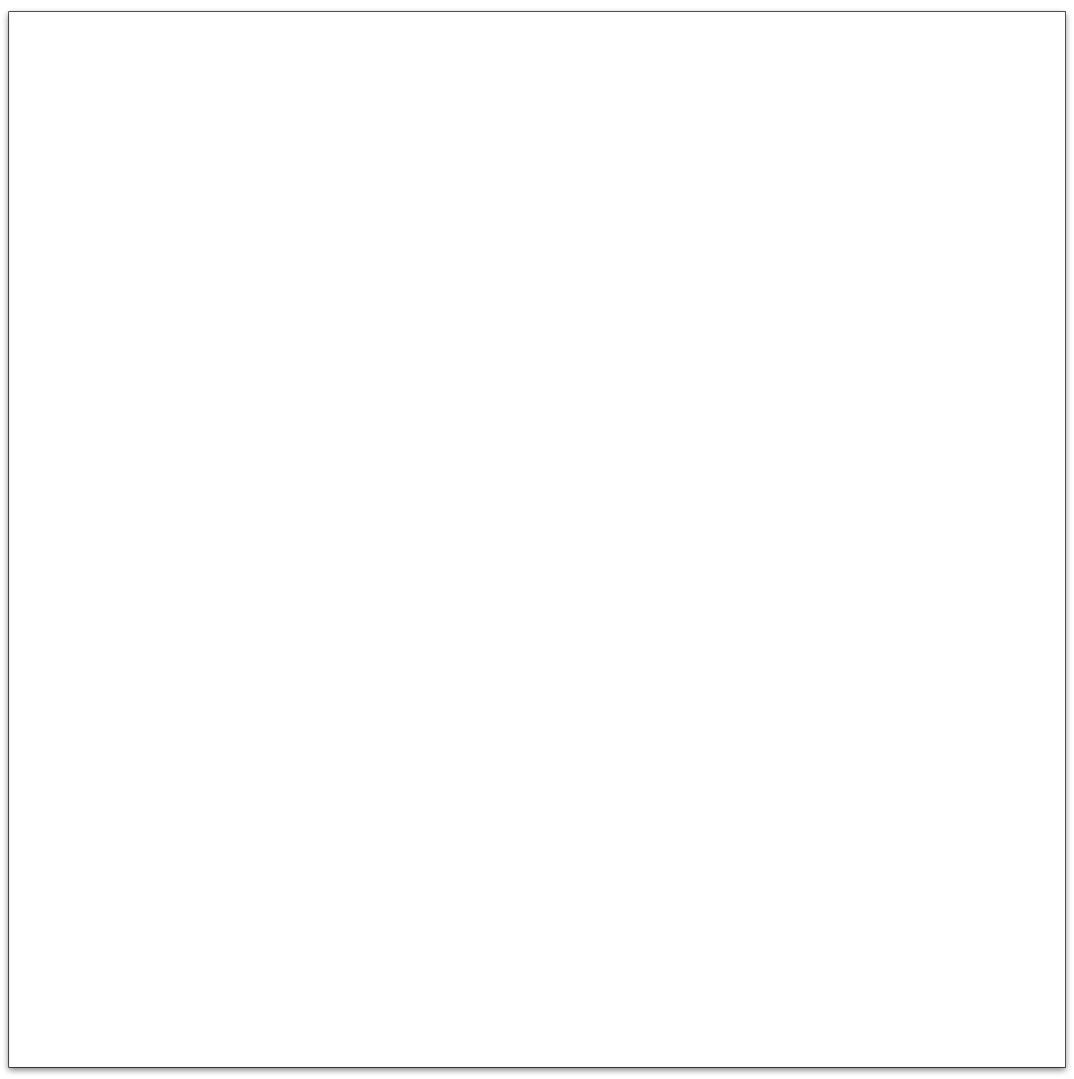
private:



public:







person(shared_mutex

std::mutex

std::scoped_lock

is_sync<person>

set first name

person_internal.get_first_name();

get_first_name()

person_internal

person_internal.set_first_name

person_internal;

std::string

(new_first);

person_internal;

(std::string_view

std::true_type

person()

mutable

private:

(mutex);

default;



cur ١

template<>

mutex;

last name

r

new first)

public:



person



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_

std::shared lock

std::unique_lock

std::shared mutex



mutex;

