



int main () safe

```
println (*s);
```

```
auto shared_data = shared_ptr<mutex<string>>::make(string ("Hello threads"));
```

for(int i : num _threads)



```
string^s = lock_guard^.borrow();
```

```
s^->append ("0");
```

void entry_point (shared_ptr<mutex<string>> data, int thread_id) safe

```
vector<thread> threads { };
```

```
auto lock _guard = data->lock();
```

```
threads . push_back(thread (&entry_point, copy shared_data, i));
```

const int num threads = 15;



```
apply ([tid] (auto& s) {
```

```
void entry_point (std::shared_ptr<synchronized_value<std::string>> sync_s, int tid)
```

```
s.append (" | ");
```

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```
auto s = std::make_shared<synchronized_value<std::string>> ("Hello threads");
```

```
•
```

```
std::vector<safe_thread> threads { };
```

const int num_threads = 15;

int main()

```
std::println ("{} {}", s, tid);
```

```
threads.push_back (safe_thread (entry_point, auto (s), auto (i)));
```

```
for (int i : std::views::iota (0, num_threads))
```



copy shared_data, i));

shared_ptr<mutex<string>> data,



int main() safe

int thread_id) safe

```
s^->append (";);
```



threads^.push_back(thread (&entry_point,

void entry_point (

auto lock_guard = data->lock();

println (*s);

string^s = lock_guard_borrow();



void entry_point (

s.append ("");

tid) int

apply ([tid] (auto& s) {

std::shared_ptr<synchronized_value<std::string>> data,



```
std::println ("{} {}", s, tid);
```

*data);

int main()

return **J**

auto (s), auto (i)));

threads push_back (safe_thread (entry_point,









