- Exercise

In this lesson, we'll solve an exercise based on a variation of the sleep time of sleeper.

we'll cover the following ^
• Problem statement

Problem statement

In the exercise, we need to vary the sleep time of the Sleeper class in the example from the previous lesson.

 Variations in the runtime are not synchronized undefined behavior.

```
#include <chrono>
#include <iostream>
#include <thread>
class Sleeper{
  public:
    Sleeper(int& i_):i{i_}{};
    void operator() (int k){
      for (unsigned int j = 0; j <= 5; ++j){
        std::this_thread::sleep_for(std::chrono::milliseconds(100));
        i += k;
      std::cout << std::this_thread::get_id() << std::endl;</pre>
  private:
    int& i;
int main(){
  std::cout << std::endl;</pre>
  int valSleeper= 1000;
  // Pass an argument here for sleep time variation
  std::thread t(Sleeper(valSleeper),5);
  // detach thread after each execution to run independently
```

```
t.join();
std::cout << "valSleeper = " << valSleeper << std::endl;

std::cout << std::endl;
}</pre>
```

In the next lesson, we'll discuss the solution to this exercise.