

Shared Data

- Danger:
 - **Data race**: At least two threads concurrently access a variable. At least one of them tries to modify them.
 - **Critical region**: Data section, in which at most one thread can have access at one time.



The program has undefined behavior.



The data must be protected from concurrent access.



A mutex (**mutal exclusion**) guarantees that at most one thread has access to the critical region.