

## 1 Homework for Threads in C

1. Which computing problems can be solved faster on a computer with multiple cpu cores. What conditions must the problem have to be computed on multiple CPU cores
2. What is a Race condition and how it can be prevented. Explain on an example.
3. A program is using the technique to prevent Race conditions and sometimes it hangs and doesn't respond to user input anymore. What is the problem and how can we solve it?
4. You want to program an banking server application that handles withdraws, transactions between accounts and payments into an account. The networking is already done and you have only to do the banking logic (Dont mind how to get the data this will be implemented by the network team). What problems do you expect and what will you do to prevent these. Try to write c code that will do these Financial transactions