

Q16 Results for Mualla Argin

Score for this attempt: **4** out of 5

Submitted Mar 2 at 10:52pm

This attempt took 5 minutes.

Question 1

1 / 2 pts

Match each term in the left column to the definition/description in the right column that **fits best**.

ou Answered

Critical section

executes as a single, ur ▼

refers to where a
thread is
accessing/updating
shared data

Correct!

Context switching

saves the state of the cl ▼

Correct!

Synchronization

Coordination between th ▼

ou Answered

Atomic instruction

refers to where a thread ▼

executes as a
single,
uninterruptible unit

Question 2

1 / 1 pts

Mark **all** correctness properties for the "Too much milk" problem discussed in Set 16

Correct!☒ Never more than one person buys**Correct!**☒ Someone buys if needed☐ Either all buy or no one buys**Question 3**

1 / 1 pts

What best expresses the problem with this code for the "Too much milk" discussed in Set 16

Thread A

```
leave note A;  
if (noNote B) {  
    if (noMilk) {  
        buy Milk;  
    }  
}  
remove note A;
```

Thread B

```
leave note B;  
if (noNote A) {  
    if (noMilk) {  
        buy Milk;  
    }  
}  
remove note B;
```

Correct!☐ two 'threads' end up buying milk☒ the code may result in starvation☐ there is no problem with the code**Question 4**

1 / 1 pts

What best expresses the problem(s) with this code for the "Too much milk" discussed in Set 16? Mark all correct answers.

Thread A

```
leave note A;  
while (note B) {  
    do nothing;  
}  
if (noMilk) {  
    buy milk;  
}  
remove note A;
```

Thread B

```
leave note B;  
if (noNote A) {  
    if (noMilk) {  
        buy milk;  
    }  
}  
remove note B;
```

☐ the code fails safety property

☐ the code fails liveness property

☒ the code does not scale well for large number of threads

☒ the code contains busy-wait cycles for the CPU

☐ the code does not exhibit any issues

Correct!

Correct!

Quiz Score: **4** out of 5