

SER 321 B Session

SI Session

Thursday, November 2nd 2023

7:00 - 8:00 pm MST

Agenda



Socket Review

Gradle Review

Threads

Concurrency

Threading your Server

SI Session Expectations

Thanks for coming to the **SER 321** SI session. We have a packed agenda and we are going to try to get through as many of our planned example problems as possible. This session will be recorded and shared with others.

- If after this you want to see additional examples, please visit the drop-in tutoring center.
- We will post the link in the chat now and at the end of the session.
 - tutoring.asu.edu
- Please keep in mind we are recording this session and it will be made available for you to review 24-48 hours after this session concludes.
- Finally, please be respectful to each other during the session.

Interact with us:

Zoom Features



Zoom Chat

- Use the chat feature to interact with the presenter and respond to presenter's questions.
- Annotations are encouraged

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Daylight Savings PSA

Change your clocks Saturday!

Time difference will change starting **Sunday November 5th**



Check out the recording for the solution!

1.

2.

3.

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1.

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9.

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Gradle Review

Which of the following correctly sets the default arguments?

A

```
if (project.hasProperty('port')) {  
    args(project.getProperty('port'));  
}  
args 8000;
```

B

```
if (project.hasProperty('port')) {  
    args(project.getProperty('port'));  
} else {  
    args 8000;  
}
```

C

```
args 8000;  
if (project.hasProperty('port')) {  
    args(project.getProperty('port'));  
}
```

D. NONE

Check out the recording for the solution!

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Gradle Review

Check out the recording for the solution!

Which of the following if statements will execute with
gradle SocketClient ?

```
if (project.hasProperty("host") && project.hasProperty("message") && project.hasProperty("number")) {  
    args(project.getProperty('host'),  
        project.getProperty('message'),  
        project.getProperty('number'));  
} else if (project.hasProperty("host") && project.hasProperty("message")) {  
    args(project.getProperty('host'),  
        project.getProperty('message'));  
} else if (project.hasProperty("host") && project.hasProperty("number")) {  
    args(project.getProperty('host'),  
        "Set by Gradle, since nothing provided: https://gph.is/2y76sj4",  
        project.getProperty('number'));  
} else if (project.hasProperty("host")) {  
    args(project.getProperty('host'));  
}
```

A.

B.

C.

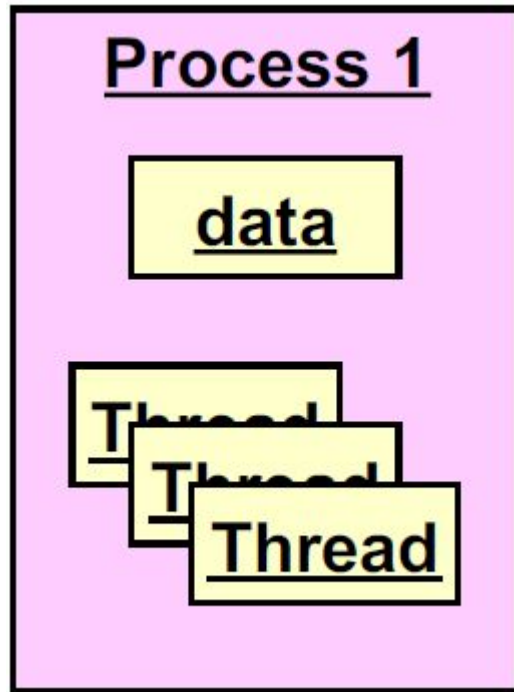
D.

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Threads

Big takeaways for threads:

- OVERHEAD!
- Shares resources of parent process
- Less protection than processes
- Concurrency



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Threading Pitfalls

- Race Condition
- Starvation
- Deadlock
- One thread never gets access to the resource it needs
- A thread is only able to acquire access to part of its resources
- More than one thread accesses a single resource at one time

Check out the recording for the solution!

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Threading Pitfalls!

Dining Philosophers

model speed

ticks: 3043

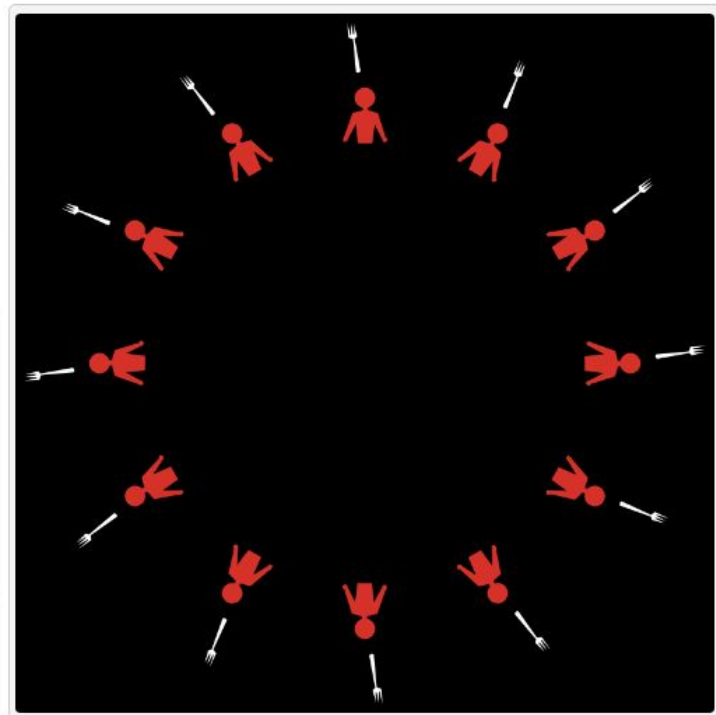
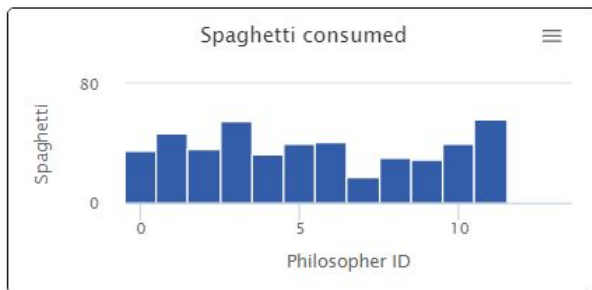
num-philosophers 12

setup go go once

hungry-chance 0.5

full-chance 0.5

cooperation?



Questions?

Survey:

https://bit.ly/asn_survey



Upcoming Events

SI Sessions:

- Sunday, November 5th 2023 at 7:00 pm MST
- Monday, November 6th 2023 at 4:00 pm MST
- Thursday, November 9th 2023 at 7:00 pm MST

Review Sessions:

- Planning to post a poll this week!

More Questions?

Check out our other resources!

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Business

ACC 231

Uses of Accounting Info I

 [Peer Community](#)

ACC 241

Uses of Accounting Info II

 [Peer Community](#)

CIS 105

Computer Applications and Information Technology

 [Peer Community](#)

Don't forget to check out the Online Study Hub for additional resources!

Additional Resources

[CourRepo](#)

[Dining Philosophers Interactive](#)