

INFS 2044 Workshop 4a: Find a Meeting Script

Role play the communication sequence scenario given below. The scenario simulates objects that collaborate to determine when the next meeting with a specific person is scheduled. For this purpose, assume that the following classes exist, each with responsibilities as given below:

Controller	
<i>Responsibilities:</i> Know the Calendar Initiate the process	<i>Collaborators:</i> Calendar

Calendar	
<i>Responsibilities:</i> Know the scheduled Meetings	<i>Collaborators:</i> Meeting

Meeting	
<i>Responsibilities:</i> Know the meeting times Know the meeting attendants Determine if a named person is included in the meeting	<i>Collaborators:</i> Contact

Contact	
<i>Responsibilities:</i> Know the name and contact details of a person	<i>Collaborators:</i> none

Assume further that 1 Calendar object, 2 Meeting objects, and 2 Contact objects exist.

Assign the following roles to students:

- Controller: 1 student
- Calendar: 1 student
- Meeting 1,2: 2 students
- Contact 1,2: 2 students

For each role there is a script that defines how students shall respond to messages received from their peers. Each student should follow the script corresponding to their role.

Controller script:

Data:

Calendar

Methods:

If asked *"When is the next meeting with <name>":*

"I don't know that. However, I can ask Calendar to find out."

"Calendar, when is the next meeting with John?"

Wait for answer <time> from Calendar.

Respond to caller: *"The next meeting with <name> is at <time>"*

If asked anything else, respond with

"I don't understand."

End of script.

Calendar script:

Data:

Meetings = [Meeting1, Meeting2]

Methods:

If asked *"When is the next meeting with <name>?"*:

"I don't know that. However, I can ask my Meetings to find out."

Begin with the first meeting in "Meetings" (*k* is the meeting number 1,2):

Repeat

"Meeting <k>, do you include <name>?"

Wait for answer.

If the answer is "yes", then:

"Meeting <k>, when do you start?"

Wait for answer <time>.

Respond to Calendar: *"The next meeting with <name> is at <time>"*

Stop.

Otherwise, move on to the next meeting in Meetings and repeat

Respond to Calendar: *"There are no meetings with <name>."*

If asked any other question, respond with:

"I don't understand."

End of script.

Meeting 1 script:

Data:

Attendees = [Contact1]

StartDateTime = "1pm on 2nd August 2021"

Methods:

If asked *"Do you include <name>?"*:

"I don't know that. However, I can ask my Attendees to find out."

Begin with the first contact in "Attendees"

Repeat

"Contact <k>, what is your name?"

Wait for answer "my name is <X>".

If <X> equals <name> then

Respond to the caller (a Meeting):

"Yes, <name> is among my attendees"

Stop.

Otherwise, move on to the next contact in Attendees and repeat

Respond to the caller: *"No, <name> does not attend this meeting."*

If asked *"When do you start?"*:

Respond with *"This meeting starts at <StartDateTime>."*

If asked any other question, respond with:

"I don't understand."

End of script.

Meeting 2 script:

Data:

Attendees = [Contact1, Contact2]

StartDateTime = "10am on 5th August 2021"

Methods:

If asked *"do you include <name>?"*:

"I don't know that. However, I can ask my Attendees to find out."

Begin with the first contact in "Attendees"

Repeat

"Contact <k>, what is your name?"

Wait for answer *"my name is <X>".*

If <X> equals <name> then

Respond to the caller (a Meeting):

"Yes, <name> is among my attendees"

Stop.

Otherwise, move on to the next contact in Attendees and repeat

Respond to the caller: *"No, <name> does not attend this meeting."*

If asked *"When do you start?"*:

Respond with *"This meeting starts at <StartDateTime>."*

If asked any other question, respond with:

"I don't understand."

End of script.

Contact 1 script:

Data:

Name = "Sue"

Methods:

If asked "*What is your name?*":

Respond with "My name is <Name>."

If asked any other question, respond with:

"I don't understand."

End of script.

Contact 2 script:

Data:

Name = "John"

Methods:

If asked "*What is your name?*":

Respond with "My name is <Name>."

If asked any other question, respond with:

"I don't understand."

End of script.