



The University of the West Indies, St. Augustine
COMP 2603 Object Oriented Programming I
Assignment 1 Grade Sheet
2020/2021 Semester 2

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63.37%

B-

| Criteria | Mark |
|----------------------------|-------------|
| VirtualMeetingSystem | 15.0 |
| VirtualRoom | 10.5 |
| BreakoutRoom | 21.0 |
| Participant | 8.0 |
| Total (out of 86.0) | 54.5 |

VirtualMeetingSystem Class

Passed 3/10; Partially passed 1/10; Failed 6/10.

| | | |
|--------|--|-----------|
| Method | <code>createVirtualRoom(String)</code> | 2.0 / 2.0 |
|--------|--|-----------|

| | | |
|--------|---|-------------|
| Method | <code>allocateParticipants(String)</code> | 10.0 / 10.0 |
|--------|---|-------------|

| | | |
|--------|-------------------------------------|-----------|
| Method | <code>listAllBreakoutRooms()</code> | 2.0 / 2.0 |
|--------|-------------------------------------|-----------|

| | | |
|--------|--|-----------|
| Method | <code>addParticipant(String, int)</code> | 0.0 / 2.0 |
|--------|--|-----------|

Cannot be further tested because testing relies on the `openBreakoutRoom` method that does not work as anticipated: produced `java.lang.ArrayIndexOutOfBoundsException: Index -1 out of bounds for length 10`. We expect your method to run without problems, but instead yours contains bad code that creates problems.

| | |
|--|---|
| Check <code>VirtualMeetingSystem()</code> constructor exists and is accessible | ✓ |
|--|---|

| | |
|--|---|
| Check <code>loadParticipantData(String)</code> method exists and is accessible | ✓ |
|--|---|

| | |
|--|---|
| Check <code>createVirtualRoom(String)</code> method exists and is accessible | ✓ |
|--|---|

| | |
|--|---|
| Check <code>openBreakoutRoom(int)</code> method exists and is accessible | ✓ |
|--|---|

| | |
|--|---|
| Check <code>public boolean addParticipant(String, int)</code> method exists and defined properly | ✓ |
|--|---|

| | |
|---|---|
| Check <code>VirtualMeetingSystem()</code> constructor creates instances | ✓ |
|---|---|

| | |
|--|---|
| Check <code>loadParticipantData(String)</code> method runs with args (<code>"src/al/test/resources/participant.dat"</code>) | ✓ |
|--|---|

| | |
|---|---|
| Check <code>createVirtualRoom(String)</code> method runs with args (<code>"VirtualRoom"</code>) | ✓ |
|---|---|

| | |
|---|---|
| Check <code>openBreakoutRoom(int)</code> method runs with args (<code>1</code>) | ✗ |
|---|---|

| | | |
|--------|------------------------------------|-----------|
| Method | <code>listParticipants(int)</code> | 0.0 / 3.0 |
|--------|------------------------------------|-----------|

Cannot be further tested because testing relies on the `openBreakoutRoom` method that does not work as anticipated: produced `java.lang.ArrayIndexOutOfBoundsException: Index -1 out of bounds for length 10`. We expect your method to run without problems, but instead yours contains bad code that creates problems.

| | |
|--|---|
| Check <code>VirtualMeetingSystem()</code> constructor exists and is accessible | ✓ |
|--|---|

| | |
|--|---|
| Check <code>createVirtualRoom(String)</code> method exists and is accessible | ✓ |
|--|---|

| | |
|---|---|
| Check <code>openBreakoutRoom(int)</code> method exists and is accessible | ✓ |
| Check <code>addParticipant(String, int)</code> method exists and is accessible | ✓ |
| Check <code>public String listParticipants(int)</code> method exists and defined properly | ✓ |
| Check <code>VirtualMeetingSystem()</code> constructor creates instances | ✓ |
| Check <code>createVirtualRoom(String)</code> method runs with args ("VirtualRoom") | ✓ |
| Check <code>openBreakoutRoom(int)</code> method runs with args (1) | ✗ |

| Method | <code>openBreakoutRoom(int)</code> | 0.0 / 2.0 |
|--|------------------------------------|-----------|
| Does not work as anticipated: produced <code>java.lang.ArrayIndexOutOfBoundsException: Index -1 out of bounds for length 10</code> . We expect your method to run without problems, but instead yours contains bad code that creates problems. | | |
| Check <code>VirtualMeetingSystem()</code> constructor exists and is accessible | ✓ | |
| Check <code>createVirtualRoom(String)</code> method exists and is accessible | ✓ | |
| Check <code>public boolean openBreakoutRoom(int)</code> method exists and defined properly | ✓ | |
| Check <code>VirtualMeetingSystem()</code> constructor creates instances | ✓ | |
| Check <code>createVirtualRoom(String)</code> method runs with args ("VirtualRoom") | ✓ | |
| Check <code>openBreakoutRoom(int)</code> method runs with args (1) | ✗ | |

| Method | <code>closeBreakoutRoom(int)</code> | 0.0 / 2.0 |
|--|-------------------------------------|-----------|
| Does not work as anticipated: produced <code>java.lang.ArrayIndexOutOfBoundsException: Index -1 out of bounds for length 10</code> . We expect your method to run without problems, but instead yours contains bad code that creates problems. | | |
| Check <code>VirtualMeetingSystem()</code> constructor exists and is accessible | ✓ | |
| Check <code>createVirtualRoom(String)</code> method exists and is accessible | ✓ | |
| Check <code>public boolean closeBreakoutRoom(int)</code> method exists and defined properly | ✓ | |
| Check <code>VirtualMeetingSystem()</code> constructor creates instances | ✓ | |
| Check <code>createVirtualRoom(String)</code> method runs with args ("VirtualRoom") | ✓ | |
| Check <code>closeBreakoutRoom(int)</code> method runs with args (1) | ✗ | |

| Method | <code>findParticipantBreakoutRoom(String)</code> | 0.0 / 2.0 |
|---|--|-----------|
| <p>Cannot be further tested because testing relies on the <code>openBreakoutRoom</code> method that does not work as anticipated: produced <code>java.lang.ArrayIndexOutOfBoundsException: Index -1 out of bounds for length 10</code>. We expect your method to run without problems, but instead yours contains bad code that creates problems.</p> | | |
| Check <code>VirtualMeetingSystem()</code> constructor exists and is accessible | | ✓ |
| Check <code>createVirtualRoom(String)</code> method exists and is accessible | | ✓ |
| Check <code>openBreakoutRoom(int)</code> method exists and is accessible | | ✓ |
| Check <code>addParticipant(String, int)</code> method exists and is accessible | | ✓ |
| Check <code>public String findParticipantBreakoutRoom(String)</code> method exists and defined properly | | ✓ |
| Check <code>VirtualMeetingSystem()</code> constructor creates instances | | ✓ |
| Check <code>createVirtualRoom(String)</code> method runs with args (<code>"VirtualRoom"</code>) | | ✓ |
| Check <code>openBreakoutRoom(int)</code> method runs with args (<code>1</code>) | | ✗ |

| Method | <code>listParticipantsInAllBreakoutRooms()</code> | 0.0 / 2.0 |
|---|---|-----------|
| <p>Cannot be further tested because testing relies on the <code>openBreakoutRoom</code> method that does not work as anticipated: produced <code>java.lang.ArrayIndexOutOfBoundsException: Index -1 out of bounds for length 10</code>. We expect your method to run without problems, but instead yours contains bad code that creates problems.</p> | | |
| Check <code>VirtualMeetingSystem()</code> constructor exists and is accessible | | ✓ |
| Check <code>createVirtualRoom(String)</code> method exists and is accessible | | ✓ |
| Check <code>openBreakoutRoom(int)</code> method exists and is accessible | | ✓ |
| Check <code>addParticipant(String, int)</code> method exists and is accessible | | ✓ |
| Check <code>public String listParticipantsInAllBreakoutRooms()</code> method exists and defined properly | | ✓ |
| Check <code>VirtualMeetingSystem()</code> constructor creates instances | | ✓ |
| Check <code>createVirtualRoom(String)</code> method runs with args (<code>"VirtualRoom"</code>) | | ✓ |
| Check <code>openBreakoutRoom(int)</code> method runs with args (<code>1</code>) | | ✗ |

| | | |
|--|--|-----------|
| Method | <code>loadParticipantData(String)</code> | 1.0 / 5.0 |
| Does not alter the data attribute as it should. We expect your method to change the values of a particular set of instance attributes, but yours doesn't, or it does it in an unanticipated way. | | |
| Check <code>VirtualMeetingSystem()</code> constructor exists and is accessible | | ✓ |
| Check <code>public void loadParticipantData(String)</code> method exists and defined properly | | ✓ |
| Check <code>VirtualMeetingSystem()</code> constructor creates instances | | ✓ |
| Check <code>loadParticipantData(String)</code> method runs with args (<code>"src/al/test/resources/participant.dat"</code>) | | ✓ |
| Check first attribute with type <code>String[]</code> equals an array with size 50 | | ✓ |
| Check data attribute equals an array with size 50 +1.0 | | ✓ |
| Check first attribute with type <code>String[]</code> equals not an array containing null +1.0 | | ✓ |
| Check data attribute equals not an array containing null | | ✗ |

VirtualRoom Class

Passed 4/14; Partially passed 3/14; Failed 7/14.

| | | |
|---|---------------------------------------|-----------|
| Attribute | <code>breakoutRooms</code> | 1.0 / 1.0 |
| Attribute | <code>name</code> | 1.0 / 1.0 |
| Constructor | <code>VirtualRoom(String, int)</code> | 2.0 / 2.0 |
| Method | <code>findBreakoutRoom(int)</code> | 2.0 / 2.0 |
| Attribute | <code>breakoutRoomLimit</code> | 0.0 / 1.0 |
| Does not have final modifier. We expect your attribute or method to have the final keyword indicating that it is a constant attribute or an un-overridable method, but yours doesn't. | | |
| Check <code>private final int breakoutRoomLimit</code> attribute exists and defined properly | | ✗ |
| Constructor | <code>VirtualRoom(String)</code> | 1.5 / 2.0 |

Does not initialize the breakoutRooms attribute. We expect your constructor to initialize a particular set of instance attributes, but yours doesn't.

Check `public VirtualRoom(String)` constructor exists and defined properly ✓

Check `VirtualRoom(String)` constructor creates instances with args ("VirtualRoom") +0.5 ✓

Check name attribute equals "VirtualRoom" +0.5 ✓

Check breakoutRoomLimit attribute equals 5 +0.5 ✓

Check breakoutRooms attribute equals an array with size 5 ✗

| | | |
|--------|------------------------------------|-----------|
| Method | <code>createBreakoutRooms()</code> | 0.0 / 2.0 |
|--------|------------------------------------|-----------|

Cannot be further tested because testing relies on another method that Does not alter the breakoutRooms attribute as it should. We expect your method to change the values of a particular set of instance attributes, but yours doesn't, or it does it in an unanticipated way.

Check `VirtualRoom(String)` constructor exists and is accessible ✓

Check breakoutRooms attribute exists ✓

Check `public void createBreakoutRooms()` method exists and defined properly ✓

Check `VirtualRoom(String)` constructor creates instances with args ("VirtualRoom") ✓

Check `createBreakoutRooms()` method runs ✓

Check breakoutRooms attribute equals not an array containing null ✗

| | | |
|--------|------------------------------------|-----------|
| Method | <code>openBreakoutRoom(int)</code> | 0.0 / 2.0 |
|--------|------------------------------------|-----------|

Cannot be further tested because testing relies on the closeBreakoutRoom method that does not work as anticipated: produced java.lang.ArrayIndexOutOfBoundsException: Index -1 out of bounds for length 10. We expect your method to run without problems, but instead yours contains bad code that creates problems.

Check `VirtualRoom(String)` constructor exists and is accessible ✓

Check `createBreakoutRooms()` method exists and is accessible ✓

Check `closeBreakoutRoom(int)` method exists and is accessible ✓

Check breakoutRooms attribute exists ✓

Check `public boolean openBreakoutRoom(int)` method exists and defined properly ✓

| | |
|---|---|
| Check <code>VirtualRoom(String)</code> constructor creates instances with args (<code>"VirtualRoom"</code>) | ✓ |
| Check <code>createBreakoutRooms()</code> method runs | ✓ |
| Check <code>closeBreakoutRoom(int)</code> method runs with args (<code>1</code>) | ✗ |

| Method | <code>closeBreakoutRoom(int)</code> | 0.0 / 2.0 |
|--|-------------------------------------|-----------|
| Does not work as anticipated: produced <code>java.lang.ArrayIndexOutOfBoundsException: Index -1 out of bounds for length 10</code> . We expect your method to run without problems, but instead yours contains bad code that creates problems. | | |
| Check <code>VirtualRoom(String)</code> constructor exists and is accessible | ✓ | |
| Check <code>createBreakoutRooms()</code> method exists and is accessible | ✓ | |
| Check <code>breakoutRooms</code> attribute exists | ✓ | |
| Check <code>public boolean closeBreakoutRoom(int)</code> method exists and defined properly | ✓ | |
| Check <code>VirtualRoom(String)</code> constructor creates instances with args (<code>"VirtualRoom"</code>) | ✓ | |
| Check <code>createBreakoutRooms()</code> method runs | ✓ | |
| Check <code>closeBreakoutRoom(int)</code> method runs with args (<code>1</code>) | ✗ | |

| Method | <code>findParticipantBreakoutRoom(String)</code> | 0.0 / 2.0 |
|---|--|-----------|
| Is not defined. We expect your attribute, method or constructor to be defined in a particular way, but yours isn't or not defined at all. | | |
| Check <code>VirtualRoom(String)</code> constructor exists and is accessible | ✓ | |
| Check <code>createBreakoutRooms()</code> method exists and is accessible | ✓ | |
| Check <code>listParticipantsInBreakoutRoom(int)</code> method exists and is accessible | ✓ | |
| Check <code>addParticipantToBreakoutRoom(String, int)</code> method exists and is accessible | ✓ | |
| Check <code>public String findParticipantBreakoutRoom(String)</code> method exists and defined properly | ✗ | |

| Method | <code>getNumberOfBreakoutRooms()</code> | 0.0 / 1.0 |
|--|---|-----------|
| Returns abnormal values. We expect your method to return a particular value, but instead yours returns a value that is not feasible nor valid. | | |

| | |
|--|---|
| Check <code>VirtualRoom(String)</code> constructor exists and is accessible | ✓ |
| Check <code>breakoutRoomLimit</code> attribute exists | ✓ |
| Check <code>public int getNumberOfBreakoutRooms()</code> method exists and defined properly | ✓ |
| Check <code>VirtualRoom(String)</code> constructor creates instances with args (<code>"VirtualRoom"</code>) | ✓ |
| Check <code>getNumberOfBreakoutRooms()</code> method returns value equal to attribute <code>breakoutRoomLimit</code> | ✗ |

| | | |
|--------|--|-----------|
| Method | <code>addParticipantToBreakoutRoom(String, int)</code> | 0.0 / 2.0 |
|--------|--|-----------|

Cannot be further tested because testing relies on the `openBreakoutRoom` method that does not work as anticipated: produced `java.lang.ArrayIndexOutOfBoundsException: Index -1 out of bounds for length 10`. We expect your method to run without problems, but instead yours contains bad code that creates problems.

| | |
|--|---|
| Check <code>VirtualRoom(String)</code> constructor exists and is accessible | ✓ |
| Check <code>createBreakoutRooms()</code> method exists and is accessible | ✓ |
| Check <code>listParticipantsInBreakoutRoom(int)</code> method exists and is accessible | ✓ |
| Check <code>public boolean addParticipantToBreakoutRoom(String, int)</code> method exists and defined properly | ✓ |
| Check <code>VirtualRoom(String)</code> constructor creates instances with args (<code>"VirtualRoom"</code>) | ✓ |
| Check <code>createBreakoutRooms()</code> method runs | ✓ |
| Check <code>openBreakoutRoom(int)</code> method runs with args (<code>1</code>) | ✗ |

| | | |
|--------|----------------------------------|-----------|
| Method | <code>listBreakoutRooms()</code> | 1.5 / 2.0 |
|--------|----------------------------------|-----------|

Returns correct information in an incorrect format. We expect your method to return a particular value in a given format, but instead yours returns the value in another format.

| | |
|---|---|
| Check <code>VirtualRoom(String)</code> constructor exists and is accessible | ✓ |
| Check <code>createBreakoutRooms()</code> method exists and is accessible | ✓ |
| Check <code>public String listBreakoutRooms()</code> method exists and defined properly | ✓ |
| Check <code>VirtualRoom(String)</code> constructor creates instances with args (<code>"VirtualRoom"</code>) | ✓ |
| Check <code>createBreakoutRooms()</code> method runs | ✓ |

- Check `listBreakoutRooms()` method returns string containing attribute `name` +1.5 ✓
- Check `listBreakoutRooms()` method returns string containing attribute `breakoutRooms` in format `"breakoutRoom_1.toString() \n breakoutRoom_2.toString() \n ... breakoutRoom_n.toString()"` ✗

Method `listParticipantsInBreakoutRoom(int)` 1.5 / 2.0

Cannot be further tested because testing relies on the `openBreakoutRoom` method that does not work as anticipated: produced `java.lang.ArrayIndexOutOfBoundsException: Index -1 out of bounds for length 10`. We expect your method to run without problems, but instead yours contains bad code that creates problems.

- Check `VirtualRoom(String)` constructor exists and is accessible ✓
- Check `createBreakoutRooms()` method exists and is accessible ✓
- Check `addParticipantToBreakoutRoom(String, int)` method exists and is accessible ✓
- Check `public String listParticipantsInBreakoutRoom(int)` method exists and defined properly ✓
- Check `VirtualRoom(String)` constructor creates instances with args `("VirtualRoom")` ✓
- Check `createBreakoutRooms()` method runs ✓
- Check `listParticipantsInBreakoutRoom(int)` method returns `not null` with args `(1)` +1.0 ✓
- Check `listParticipantsInBreakoutRoom(int)` method returns string containing attribute `name` with args `(1)` +0.5 ✓
- Check `openBreakoutRoom(int)` method runs with args `(1)` ✗

BreakoutRoom Class

Passed 15/16; Partially passed 1/16.

Attribute `breakoutRoomID` 1.0 / 1.0

Attribute `breakoutRoomSize` 1.0 / 1.0

Attribute `participants` 1.0 / 1.0

| | | |
|---|--|-----------|
| Attribute | <code>numberOfParticipants</code> | 1.0 / 1.0 |
| Attribute | <code>open</code> | 1.0 / 1.0 |
| Attribute | <code>breakoutRoomNumberCounter</code> | 1.0 / 1.0 |
| Constructor | <code>BreakoutRoom(String)</code> | 3.0 / 3.0 |
| Method | <code>findParticipant(String)</code> | 2.0 / 2.0 |
| Method | <code>toString()</code> | 2.0 / 2.0 |
| Method | <code>getBreakoutRoomID()</code> | 1.0 / 1.0 |
| Method | <code>getOpen()</code> | 1.0 / 1.0 |
| Method | <code>addParticipant(String)</code> | 2.0 / 2.0 |
| Method | <code>openBreakoutRoom()</code> | 1.0 / 1.0 |
| Method | <code>closeBreakoutRoom()</code> | 1.0 / 1.0 |
| Method | <code>getNumberOfParticipants()</code> | 1.0 / 1.0 |
| Method | <code>listParticipants()</code> | 1.0 / 2.0 |
| <p>Returns correct information in an incorrect format. We expect your method to return a particular value in a given format, but instead yours returns the value in another format.</p> | | |
| Check <code>BreakoutRoom(String)</code> constructor exists and is accessible | | ✓ |
| Check <code>addParticipant(String)</code> method exists and is accessible | | ✓ |
| Check <code>openBreakoutRoom()</code> method exists and is accessible | | ✓ |
| Check <code>breakoutRoomID</code> attribute exists | | ✓ |
| Check <code>public String listParticipants()</code> method exists and defined properly | | ✓ |
| Check <code>BreakoutRoom(String)</code> constructor creates instances with args ("Room1") | | ✓ |
| Check <code>openBreakoutRoom()</code> method runs | | ✓ |
| Check <code>addParticipant(String)</code> method runs with args ("10000000") | | ✓ |

Check `listParticipants()` method returns string containing attribute `breakoutRoomID` +1.0



Check `listParticipants()` method returns string containing attribute `participants` in format
"`participant_1.toString()` \n `participant_2.toString()` \n ... `participant_`
`n.toString()` "



Participant Class

Passed 5/5.

| | | |
|-------------|----------------------------------|-----------|
| Attribute | <code>participantID</code> | 1.0 / 1.0 |
| Constructor | <code>Participant(String)</code> | 2.0 / 2.0 |
| Method | <code>toString()</code> | 2.0 / 2.0 |
| Method | <code>verifyID(String)</code> | 2.0 / 2.0 |
| Method | <code>getParticipantID()</code> | 1.0 / 1.0 |