



**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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53.49%

**C**

Criteria	Mark
VirtualMeetingSystem	12.0
VirtualRoom	6.0
BreakoutRoom	11.5
Participant	7.5
Bonuses	+10.0
Deductions	-1.0
<b>Total (out of 86.0)</b>	<b>46.0</b>

## Grade Changes

Observe any deductions or bonuses that you have incurred or earned.

Bonuses	
Merit Bonus: Early submission	+5.0
Question Bonus: allocateParticipants(String)	+5.0

Deductions	
Formatting Error: Incorrect archive format (please use .zip)	-1

## VirtualMeetingSystem Class

Passed 2/10; Failed 8/10.

Method	<code>createVirtualRoom(String)</code>	2.0 / 2.0
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Method	<code>allocateParticipants(String)</code>	10.0 / 10.0
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Method	<code>loadParticipantData(String)</code>	0.0 / 5.0
Does not alter the p 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 <code>p</code> attribute equals an array with size 50		✗

Method	<code>addParticipant(String, int)</code>	0.0 / 2.0
Cannot be further tested because testing relies on the <code>openBreakoutRoom</code> method that does not work		

as anticipated: produced java.lang.NullPointerException: Cannot invoke "out.Brandon\_Mohammed\_657687\_assignsubmission\_file\_.BreakoutRoom.getBreakoutRoomNumber()" because "this.BOR[i]" is null. We expect your method to run without problems, but instead yours contains bad code that creates problems.

Check VirtualMeetingSystem() constructor exists and is accessible	✓
Check loadParticipantData(String) method exists and is accessible	✓
Check createVirtualRoom(String) method exists and is accessible	✓
Check openBreakoutRoom(int) method exists and is accessible	✓
Check public boolean addParticipant(String, int) method exists and defined properly	✓
Check VirtualMeetingSystem() constructor creates instances	✓
Check loadParticipantData(String) method runs with args ("src/al/test/resources/participant.dat")	✓
Check createVirtualRoom(String) method runs with args ("VirtualRoom")	✓
Check openBreakoutRoom(int) method runs with args (1)	✗

Method	listParticipants(int)	0.0 / 3.0
Cannot be further tested because testing relies on the openBreakoutRoom method that does not work as anticipated: produced java.lang.NullPointerException: Cannot invoke "out.Brandon_Mohammed_657687_assignsubmission_file_.BreakoutRoom.getBreakoutRoomNumber()" because "this.BOR[i]" is null. We expect your method to run without problems, but instead yours contains bad code that creates problems.		
Check VirtualMeetingSystem() constructor exists and is accessible	✓	
Check createVirtualRoom(String) method exists and is accessible	✓	
Check openBreakoutRoom(int) method exists and is accessible	✓	
Check addParticipant(String, int) method exists and is accessible	✓	
Check public String listParticipants(int) method exists and defined properly	✓	
Check VirtualMeetingSystem() constructor creates instances	✓	
Check createVirtualRoom(String) method runs with args ("VirtualRoom")	✓	
Check openBreakoutRoom(int) method runs with args (1)	✗	

Method	<code>openBreakoutRoom(int)</code>	0.0 / 2.0
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Does not work as anticipated: produced java.lang.NullPointerException: Cannot invoke "out.Brandon\_Mohammed\_657687\_assignsubmission\_file\_.BreakoutRoom.getBreakoutRoomNumber()" because "this.BOR[i]" is null. 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	✓
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Check <code>createVirtualRoom(String)</code> method exists and is accessible	✓
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Check <code>public boolean openBreakoutRoom(int)</code> method exists and defined properly	✓
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Check <code>VirtualMeetingSystem()</code> constructor creates instances	✓
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Check <code>createVirtualRoom(String)</code> method runs with args ( "VirtualRoom" )	✓
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Check <code>openBreakoutRoom(int)</code> method runs with args ( 1 )	✗
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Method	<code>closeBreakoutRoom(int)</code>	0.0 / 2.0
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Does not work as anticipated: produced java.lang.NullPointerException: Cannot invoke "out.Brandon\_Mohammed\_657687\_assignsubmission\_file\_.BreakoutRoom.getBreakoutRoomNumber()" because "this.BOR[i]" is null. 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	✓
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Check <code>createVirtualRoom(String)</code> method exists and is accessible	✓
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Check <code>public boolean closeBreakoutRoom(int)</code> method exists and defined properly	✓
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Check <code>VirtualMeetingSystem()</code> constructor creates instances	✓
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Check <code>createVirtualRoom(String)</code> method runs with args ( "VirtualRoom" )	✓
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Check <code>closeBreakoutRoom(int)</code> method runs with args ( 1 )	✗
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Method	<code>listAllBreakoutRooms()</code>	0.0 / 2.0
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Does not work as anticipated: produced java.lang.NullPointerException: Cannot invoke "out.Brandon\_Mohammed\_657687\_assignsubmission\_file\_.BreakoutRoom.getBreakoutRoomID()" because "this.BOR[i]" is null. 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	✓
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Check <code>createVirtualRoom(String)</code> method exists and is accessible	✓
Check <code>public String listAllBreakoutRooms()</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>listAllBreakoutRooms()</code> method returns a string containing "VirtualRoom"	✗

Method	<code>findParticipantBreakoutRoom(String)</code>	0.0 / 2.0
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Cannot be further tested because testing relies on the `openBreakoutRoom` method that does not work as anticipated: produced `java.lang.NullPointerException: Cannot invoke "out.Brandon_Mohammed_657687_assignsubmission_file_.BreakoutRoom.getBreakoutRoomNumber()" because "this.BOR[i]" is null`. 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 findParticipantBreakoutRoom(String)</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>listParticipantsInAllBreakoutRooms()</code>	0.0 / 2.0
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Cannot be further tested because testing relies on the `openBreakoutRoom` method that does not work as anticipated: produced `java.lang.NullPointerException: Cannot invoke "out.Brandon_Mohammed_657687_assignsubmission_file_.BreakoutRoom.getBreakoutRoomNumber()" because "this.BOR[i]" is null`. 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 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> )	✗

## VirtualRoom Class

Passed 2/14; Partially passed 2/14; Failed 10/14.

Attribute	<code>name</code>	1.0 / 1.0
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Method	<code>listBreakoutRooms()</code>	2.0 / 2.0
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Attribute	<code>breakoutRooms</code>	0.0 / 1.0
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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>private BreakoutRoom[] breakoutRooms</code> attribute exists and defined properly	✗
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Attribute	<code>breakoutRoomLimit</code>	0.0 / 1.0
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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	✗
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Constructor	<code>VirtualRoom(String, int)</code>	1.5 / 2.0
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Does not initialize the `breakoutRooms` attribute. We expect your constructor to initialize a particular set of instance attributes, but yours doesn't.

Check <code>public VirtualRoom(String, int)</code> constructor exists and defined properly	✓
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Check <code>VirtualRoom(String, int)</code> constructor creates instances with args ( <code>"VirtualRoom"</code> , <code>10</code> )	+0.5	✓
Check <code>name</code> attribute equals <code>"VirtualRoom"</code>	+0.5	✓
Check <code>breakoutRoomLimit</code> attribute equals <code>10</code>	+0.5	✓
Check <code>breakoutRooms</code> attribute equals an array with size <code>10</code>		✗

Constructor	<code>VirtualRoom(String)</code>	1.5 / 2.0
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Does not initialize the `breakoutRooms` attribute. We expect your constructor to initialize a particular set of instance attributes, but yours doesn't.

Check <code>public VirtualRoom(String)</code> constructor exists and defined properly		✓
Check <code>VirtualRoom(String)</code> constructor creates instances with args ( <code>"VirtualRoom"</code> )	+0.5	✓
Check <code>name</code> attribute equals <code>"VirtualRoom"</code>	+0.5	✓
Check <code>breakoutRoomLimit</code> attribute equals <code>5</code>	+0.5	✓
Check <code>breakoutRooms</code> attribute equals an array with size <code>5</code>		✗

Method	<code>findBreakoutRoom(int)</code>	0.0 / 2.0
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Does not work as anticipated for valid inputs. We expect your method to work in a particular way (and possibly return an anticipated value) when given valid inputs, but yours doesn't.

Check <code>VirtualRoom(String)</code> constructor exists and is accessible		✓
Check <code>createBreakoutRooms()</code> method exists and is accessible		✓
Check <code>public BreakoutRoom findBreakoutRoom(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>findBreakoutRoom(int)</code> method returns <code>not null</code> with args ( <code>1</code> )		✗

Method	<code>createBreakoutRooms()</code>	0.0 / 2.0
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Is not testable because testing relies on the `breakoutRooms` attribute that 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>breakoutRooms</code> attribute exists	✗

Method	<code>openBreakoutRoom(int)</code>	0.0 / 2.0
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Is not testable because testing relies on the `breakoutRooms` attribute that 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>closeBreakoutRoom(int)</code> method exists and is accessible	✓
Check <code>breakoutRooms</code> attribute exists	✗

Method	<code>closeBreakoutRoom(int)</code>	0.0 / 2.0
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Is not testable because testing relies on the `breakoutRooms` attribute that 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>breakoutRooms</code> attribute exists	✗

Method	<code>findParticipantBreakoutRoom(String)</code>	0.0 / 2.0
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Is not testable because testing relies on the `listParticipantsInBreakoutRoom` method that 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	✗

Method	<code>getNumberOfBreakoutRooms()</code>	0.0 / 1.0
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Does not work as anticipated: produced `java.lang.NullPointerException: Cannot invoke "out.Brandon_Mohammed_657687_assignsubmission_file_.BreakoutRoom.getNumberOfParticipants()" because "this.BOR[i]" is null`. 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 `breakoutRoomLimit` attribute exists ✓

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

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

Check `getNumberOfBreakoutRooms()` method returns value equal to attribute  
`breakoutRoomLimit` ✗

Method `listParticipantsInBreakoutRoom(int)` 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 `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 ✗

Method `addParticipantToBreakoutRoom(String, int)` 0.0 / 2.0

Is not testable because testing relies on the `listParticipantsInBreakoutRoom` method that 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 `VirtualRoom(String)` constructor exists and is accessible ✓

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

Check `listParticipantsInBreakoutRoom(int)` method exists and is accessible ✗

## BreakoutRoom Class

Passed 9/16; Partially passed 2/16; Failed 5/16.

Attribute	<code>breakoutRoomID</code>	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
Method	<code>getBreakoutRoomID()</code>	1.0 / 1.0
Method	<code>getOpen()</code>	1.0 / 1.0
Method	<code>openBreakoutRoom()</code>	1.0 / 1.0
Method	<code>closeBreakoutRoom()</code>	1.0 / 1.0
Method	<code>getNumberOfParticipants()</code>	1.0 / 1.0
Attribute	<code>breakoutRoomSize</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 breakoutRoomSize</code> attribute exists and defined properly		✗
Attribute	<code>participants</code>	0.0 / 1.0
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>private Participant[] participants</code> attribute exists and defined properly		✗
Constructor	<code>BreakoutRoom(String)</code>	1.5 / 3.0
Does not initialize the <code>breakoutRoomSize</code> attribute. We expect your constructor to initialize a particular set of instance attributes, but yours doesn't.		
Check <code>public BreakoutRoom(String)</code> constructor exists and defined properly		✓
Check <code>BreakoutRoom(String)</code> constructor creates instances with args ( "Room1" ) +1.0		✓
Check <code>breakoutRoomID</code> attribute equals <code>not null</code> +0.5		✓

Check breakoutRoomSize attribute equals 10



Method

findParticipant(String)

0.0 / 2.0

Cannot be further tested because testing relies on the addParticipant method that does not work as anticipated: produced java.lang.NullPointerException: Cannot invoke "String.equals(Object)" because the return value of "out.Brandon\_Mohammed\_657687\_assignsubmission\_file\_.Participant.getParticipantID()" is null. We expect your method to run without problems, but instead yours contains bad code that creates problems.

Check BreakoutRoom(String) constructor exists and is accessible



Check addParticipant(String) method exists and is accessible



Check openBreakoutRoom() method exists and is accessible



Check public Participant findParticipant(String) method exists and defined properly



Check BreakoutRoom(String) constructor creates instances with args ("Room1")



Check openBreakoutRoom() method runs



Check addParticipant(String) method runs with args ("10000000")



Method

addParticipant(String)

0.0 / 2.0

Does not work as anticipated: produced java.lang.NullPointerException: Cannot invoke "String.equals(Object)" because the return value of "out.Brandon\_Mohammed\_657687\_assignsubmission\_file\_.Participant.getParticipantID()" is null. We expect your method to run without problems, but instead yours contains bad code that creates problems.

Check BreakoutRoom(String) constructor exists and is accessible



Check openBreakoutRoom() method exists and is accessible



Check public boolean addParticipant(String) method exists and defined properly



Check BreakoutRoom(String) constructor creates instances with args ("Room1")



Check openBreakoutRoom() method runs



Check addParticipant(String) method returns true with args ("10000000")



Method

listParticipants()

0.0 / 2.0

Cannot be further tested because testing relies on the addParticipant method that does not work as anticipated: produced java.lang.NullPointerException: Cannot invoke "String.equals(Object)" because the return value of "out.Brandon\_Mohammed\_657687\_assignsubmission\_file\_.Participant.getParticipantID()" is null. We expect your method to run without problems, but instead yours contains bad code that creates problems.

Check BreakoutRoom(String) constructor exists and is accessible	✓
Check addParticipant(String) method exists and is accessible	✓
Check openBreakoutRoom() method exists and is accessible	✓
Check breakoutRoomID attribute exists	✓
Check public String listParticipants() method exists and defined properly	✓
Check BreakoutRoom(String) constructor creates instances with args ( "Room1" )	✓
Check openBreakoutRoom() method runs	✓
Check addParticipant(String) method runs with args ( "10000000" )	✗

Method	toString()	1.0 / 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 BreakoutRoom(String) constructor exists and is accessible	✓	
Check breakoutRoomID attribute exists	✓	
Check numberOfParticipants attribute exists	✓	
Check public String toString() method exists and defined properly	✓	
Check BreakoutRoom(String) constructor creates instances with args ( "Room1" )	✓	
Check openBreakoutRoom() method runs	✓	
Check toString() method returns string containing attribute breakoutRoomID +0.5	✓	
Check toString() method returns string containing attribute numberOfParticipants +0.5	✓	
Check toString() method returns string containing attribute breakoutRoomID in format breakoutRoomID OPEN	✗	

## Participant Class

Passed 4/5; Partially passed 1/5.

Attribute	<code>participantID</code>	1.0 / 1.0
Constructor	<code>Participant(String)</code>	2.0 / 2.0
Method	<code>verifyID(String)</code>	2.0 / 2.0
Method	<code>getParticipantID()</code>	1.0 / 1.0
Method	<code>toString()</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>Participant(String)</code> constructor exists and is accessible		✓
Check <code>participantID</code> attribute exists		✓
Check <code>public String toString()</code> method exists and defined properly		✓
Check <code>Participant(String)</code> constructor creates instances with args ( "12345678" )		✓
Check <code>toString()</code> method returns string containing attribute <code>participantID</code> +1.5		✓
Check <code>toString()</code> method returns string containing attribute <code>participantID</code> in format <code>Participant: participantID</code>		✗