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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24.42%
F3

Criteria	Mark
VirtualMeetingSystem	0.0
VirtualRoom	3.0
BreakoutRoom	9.5
Participant	3.5
Bonuses	+5.0
Total (out of 86.0)	**21.0**

Grade Changes

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

Bonuses	
Merit Bonus: Early submission	+5.0

VirtualMeetingSystem Class

Failed 10/10.

Method	`loadParticipantData(String)`	0.0 / 5.0

Does not alter the IDs 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 `VirtualMeetingSystem()` constructor exists and is accessible	✓
Check `public void loadParticipantData(String)` method exists and defined properly	✓
Check `VirtualMeetingSystem()` constructor creates instances	✓
Check `loadParticipantData(String)` method runs with args (`"src/a1/test/resources/participant.dat"`)	✓
Check first attribute with type `String[]` equals `an array with size 50`	✓
Check `IDs` attribute equals `an array with size 50`	✗

Method	`createVirtualRoom(String)`	0.0 / 2.0

Does not alter the VR 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 `VirtualMeetingSystem()` constructor exists and is accessible	✓
Check `public void createVirtualRoom(String)` method exists and defined properly	✓
Check `VirtualMeetingSystem()` constructor creates instances	✓
Check `createVirtualRoom(String)` method runs with args (`"VirtualRoom"`)	✓
Check first attribute with type `VirtualRoom` equals `not null`	✓

Check `VR` attribute equals `not null`   ✗

Method   **allocateParticipants(String)**   0.0 / 10.0

Does not accept required arguments. We expect your method to be defined with the particular argument types in a particular order, but yours isn't.

Check `VirtualMeetingSystem()` constructor exists and is accessible   ✓

Check `loadParticipantData(String)` method exists and is accessible   ✓

Check `createVirtualRoom(String)` method exists and is accessible   ✓

Check `public void allocateParticipants(String)` method exists and defined properly   ✗

Method   **addParticipant(String, 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 `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   ✗

Method   **listParticipants(int)**   0.0 / 3.0

Is not testable because testing relies on the addParticipant 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 `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   ✗

Method   **openBreakoutRoom(int)**   0.0 / 2.0

Does not work as anticipated: produced java.lang.NullPointerException: Cannot invoke "out.Jonathan_Hoyte_657737_assignsubmission_file_.VirtualRoom.findBreakoutRoom(int)" because "this.VR" 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 `public boolean openBreakoutRoom(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	closeBreakoutRoom(int)	0.0 / 2.0

Does not work as anticipated: produced java.lang.NullPointerException: Cannot invoke "out.Jonathan_Hoyte_657737_assignsubmission_file_.VirtualRoom.findBreakoutRoom(int)" because "this.VR" 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 `public boolean closeBreakoutRoom(int)` method exists and defined properly ✓

Check `VirtualMeetingSystem()` constructor creates instances ✓

Check `createVirtualRoom(String)` method runs with args `("VirtualRoom")` ✓

Check `closeBreakoutRoom(int)` method runs with args `(1)` ✗

Method	listAllBreakoutRooms()	0.0 / 2.0

Does not work as anticipated: produced java.lang.NullPointerException: Cannot invoke "out.Jonathan_Hoyte_657737_assignsubmission_file_.VirtualRoom.listBreakoutRooms()" because "this.VR" 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 `public String listAllBreakoutRooms()` method exists and defined properly ✓

Check `VirtualMeetingSystem()` constructor creates instances ✓

Check `createVirtualRoom(String)` method runs with args `("VirtualRoom")` ✓

Check `listAllBreakoutRooms()` method returns `a string containing "VirtualRoom"` ✗

Method	findParticipantBreakoutRoom(String)	0.0 / 2.0

Is not testable because testing relies on the addParticipant 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 `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 ✗

Method	listParticipantsInAllBreakoutRooms()	0.0 / 2.0

Is not testable because testing relies on the addParticipant 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 `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 ✗

VirtualRoom Class

Passed 1/14; Partially passed 2/14; Failed 11/14.

Attribute	name	1.0 / 1.0

Attribute	breakoutRooms	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 `private BreakoutRoom[] breakoutRooms` attribute exists and defined properly ✗

Attribute	breakoutRoomLimit	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 `private final int breakoutRoomLimit` attribute exists and defined properly ✗

Constructor	VirtualRoom(String, int)	1.0 / 2.0

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

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

Check `VirtualRoom(String, int)` constructor creates instances with args `("VirtualRoom", 10)` +0.5 ✓

Check `name` attribute equals `"VirtualRoom"` +0.5 ✓

Check `breakoutRoomLimit` attribute equals `10` ✗

Constructor	VirtualRoom(String)	1.0 / 2.0

Does not initialize the breakoutRoomLimit 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` ✗

Method	listBreakoutRooms()	0.0 / 2.0

Returns incorrect values. We expect your method to return a particular value, but instead yours returns another incorrect one.

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

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

Check `public String listBreakoutRooms()` method exists and defined properly ✓

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

Check `createBreakoutRooms()` method runs ✓

Check `listBreakoutRooms()` method returns string containing attribute `name` ✗

Method	findBreakoutRoom(int)	0.0 / 2.0

Does not work as anticipated: produced java.lang.ArrayIndexOutOfBoundsException: Index 0 out of bounds for length 0. 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 `public BreakoutRoom findBreakoutRoom(int)` method exists and defined properly ✓

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

Check `createBreakoutRooms()` method runs ✓

Check `findBreakoutRoom(int)` method returns `not null` with args `(1)` ✗

Method	createBreakoutRooms()	0.0 / 2.0

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

Check `breakoutRooms` attribute exists ✗

Method	openBreakoutRoom(int)	0.0 / 2.0

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 `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 ✗

Method	closeBreakoutRoom(int)	0.0 / 2.0

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

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

Check `breakoutRooms` attribute exists ✗

Method	findParticipantBreakoutRoom(String)	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 0 out of bounds for length 0. 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 `listParticipantsInBreakoutRoom(int)` method exists and is accessible ✓

Check `addParticipantToBreakoutRoom(String, int)` method exists and is accessible ✓

Check `public String findParticipantBreakoutRoom(String)` method exists and defined properly ✓

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

Check `createBreakoutRooms()` method runs ✓

Check `openBreakoutRoom(int)` method runs with args (`1`) ✗

Method	getNumberOfBreakoutRooms()	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 `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

Does not work as anticipated: produced java.lang.ArrayIndexOutOfBoundsException: Index 0 out of bounds for length 0. 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`) ✗

Method	addParticipantToBreakoutRoom(String, int)	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 0 out of bounds for length 0. 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 `listParticipantsInBreakoutRoom(int)` method exists and is accessible ✓

Check `public boolean addParticipantToBreakoutRoom(String, int)` method exists and
defined properly ✓

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

Check `createBreakoutRooms()` method runs ✓

Check `openBreakoutRoom(int)` method runs with args `(1)`   ✗

BreakoutRoom Class

Passed 7/16; Partially passed 1/16; Failed 8/16.

| Attribute | `breakoutRoomID` | 1.0 / 1.0 |

| Attribute | `participants` | 1.0 / 1.0 |

| Attribute | `numberOfParticipants` | 1.0 / 1.0 |

| Attribute | `open` | 1.0 / 1.0 |

| Constructor | `BreakoutRoom(String)` | 3.0 / 3.0 |

| Method | `openBreakoutRoom()` | 1.0 / 1.0 |

| Method | `closeBreakoutRoom()` | 1.0 / 1.0 |

| Attribute | `breakoutRoomSize` | 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 `private final int breakoutRoomSize` attribute exists and defined properly   ✗

| Attribute | `breakoutRoomNumberCounter` | 0.0 / 1.0 |

Is not a class attribute. We expect your attribute to be defined with the static keyword indicating that it is a class attribute, but yours isn't.

Check `private static int breakoutRoomNumberCounter` attribute exists and defined
properly   ✗

| 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

"out.Jonathan_Hoyte_657737_assignsubmission_file_.Participant.getParticipant()" because "this.participants[h]" 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	getBreakoutRoomID()	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 `BreakoutRoom(String)` constructor exists and is accessible ✓

Check `breakoutRoomID` attribute exists ✓

Check `public String getBreakoutRoomID()` method exists and defined properly ✗

Method	getOpen()	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 `BreakoutRoom(String)` constructor exists and is accessible ✓

Check `open` attribute exists ✓

Check `public boolean getOpen()` method exists and defined properly ✗

Method	addParticipant(String)	0.0 / 2.0

Does not work as anticipated: produced java.lang.NullPointerException: Cannot invoke "out.Jonathan_Hoyte_657737_assignsubmission_file_.Participant.getParticipant()" because "this.participants[h]" 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 "out.Jonathan_Hoyte_657737_assignsubmission_file_.Participant.getParticipant()" because "this.participants[h]" 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	getNumberOfParticipants()	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 `BreakoutRoom(String)` constructor exists and is accessible ✓

Check `numberOfParticipants` attribute exists ✓

Check `public int getNumberOfParticipants()` method exists and defined properly ✗

Method	toString()	0.5 / 2.0

Returns some values but not all. We expect your method to return a set of values, but instead yours returns only some.

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`	✗

Participant Class

Passed 1/5; Partially passed 2/5; Failed 2/5.

Attribute	participantID	1.0 / 1.0

Constructor	Participant(String)	1.0 / 2.0

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

Check `public Participant(String)` constructor exists and defined properly	✓
Check `Participant(String)` constructor creates instances with args `("12345678")` +1.0	✓
Check `participantID` attribute equals `equalToIgnoringWhiteSpace("12345678")`	✗

Method	verifyID(String)	0.0 / 2.0

Is not a class method. We expect your method to be defined with the static keyword indicating that it is an class method, but yours isn't.

Check `public static boolean verifyID(String)` method exists and defined properly ✗

Method	getParticipantID()	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 `Participant(String)` constructor exists and is accessible ✓

Check `participantID` attribute exists ✓

Check `public String getParticipantID()` method exists and defined properly ✗

Method	toString()	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 `Participant(String)` constructor exists and is accessible ✓

Check `participantID` attribute exists ✓

Check `public String toString()` method exists and defined properly ✓

Check `Participant(String)` constructor creates instances with args `("12345678")` ✓

Check `toString()` method returns string containing attribute `participantID` +1.5 ✓

Check `toString()` method returns string containing attribute `participantID` in format `Participant: participantID` ✗