	White Box			
			Module in Which the	Severity (S1,
Defect Number	Defect Description	How to Correct the Defect	Defect is Found	S2, or S3)
InstructorFirstScreen.				
java				
		Edit code in the action listener of		
	The code in the action listener of "Grade Test" button	the "Grade Test" button to grade		
	1 calls the function to create a new test.	tests.	Initial Instructor GUI	S1
	The code in the action listener of "EditTest" button	Edit code in the action listener of		
	2 calls the function to grade tests.	the "Edit Test" button to edit tests.	Initial Instructor GUI	S1
		Edit code in the action listener of		
	The code in the action listener of "Create Test" button	the "Create Test" button to create		
	3 calls the function to edit tests.	tests.	Initial Instructor GUI	S1
	The author used javax.swing.JButton instead of	Add import javax.swing.*; at the		
	4 JButton . This makes the code looks very messy.	beginning of the code.	Initial Instructor GUI	S3
InstructorTestify.java				
	The function fileChooserActionPerformed is empty			
	after the user chooses a file, there is no action done	Add code to read files and handle	Instructor Create/Edit Test	
	5 to read the file or handle errors.	errors.	GUI	S1
		Since the function is meant to load		
		the next question, the index for the		
	In the function nextQButtonActionPerformed , the	current question should be	Instructor Create/Edit Test	
	6 index for the current questions is decreased.	incremented.	GUI	S1
	In the function saveQuestion , it did not handle errors			
	correctly. For errors like "no total points possible is			
	set for the question", it only displays an error dialog.	Prompt to get the information if it	Instructor Create/Edit Test	
	7 It did not prompt for the correct total points possible.	is not already set.	GUI	S1
	In the function saveQuestion , it did not save if the	Add code to save question if the	Instructor Create/Edit Test	
	8 question type is short answer.	question type is short answer.	GUI	S1
	In the function showProperties , the program shows	The program should only show the		
	9 the same property dialog twice.	property dialog once.	GUI	S1
		The program should prompt for		
	In the function openExam , it created a new test if the		Instructor Create/Edit Test	
1	10 file of an exam cannot be loaded correctly.	presses "cancel" button.	GUI	S2
		The maximum number of		
		questions allowed in a test should		
	In the function newSAActionPerformed , the program	be able to be set by the instructor		
	stops adding new question if the number of questions	instead of being hard coded in the	Instructor Create/Edit Test	
]	1 reaches 50.	program.	GUI	S2

12	In the function saveQuestion , it only checked the error condition when the current index is less than 0; it should also check for the condition when the index is greater than or equal to the length.	<pre>if (current < 0 current > test. length()) {return;}</pre>	Instructor Create/Edit Test GUI	S2
	In the function newTest , total points possible is set to 5 as default.			S3
StudentTestify.java				
1	Lines 192 -210 contain a hard coded question that will be present in every exam, the point value is also used for every question of every exam	Point value should be changed to be dynamic, everything else should be removed	Student Client GUI	S1
2	Lines 246-300 contain a hard coded multiple choice question	This should be removed	Student Client GUI	S2
3	lines 354 - 380 contain a hard coded programming question	this should be removed	Student Client GUI	S2
4	on line 530 there is no code for what to do if the type of question is a multiple choice, there is no error message, but the answer will not be saved	add a similar statement as the above to if statements to set the answer	Student Client GUI	S1
5	On line 649, the points earned are set to be one less than they should	remove the '-1'	Student Client GUI	S1
6	On line 674, Only compiles every other file.	remove the if statement, it is only there to cause a bug	Student Client GUI	S1
7	"please enter Both a first and a last name" is the only error message, and is used for everything	Error message should be changed to reflect the error that is occuring.	Student Client GUI	S3
GraderTestify.java				

1	"testFile" variable is not explicitly initialized in "initComponents()".	added testFile to initComponenets()	Instructor Client GUI - Grade Test	S3
2	All of the menu items have a setMnemonic except autograde and OpenKeyMenuItem	Added a .setMnemonic("g") and setMnemonic("k")	Instructor Client GUI - Grade Test	S2
	Extra functions that are empty such as "nextQButtonMouseClicked" and "exitMenuItemActionPerformed"	For exitMenuItemActionPerformed added a System.exit(0); and got rid of nextQButtonMouseClicked, as well as when someone calls it	Instructor Client GUI - Grade Test	S2
4	*POSSIBLE DUPLICATE* functions are calling empty functions. mouseClicked calling prevQButtonMouseClicked which is an empty function.	Got rid of the uneccesary functions and calls	Instructor Client GUI - Grade Test	S2
5	questionTypeLabel is being changed unnecessary amount of times. It is first initialized to null and then to "jlabel8". The jlabel setText is not needed	removed the unecessary setText	Instructor Client GUI - Grade Test	S3
6	Not needed if statement " if (test.length() != key. length())" a little bit above that, that if statement is being tested and a proper error shows up	removed it	Instructor Client GUI - Grade Test	S2
7	There is a boolean called isNew. It keeps getting changed but is never used	removed it	Instructor Client GUI - Grade Test	S2
8	In saveAsMenuItemActionPerformed there is a if statement "if (testFile == null)" saveMenuItemActionPerformed(evt); This doesn't make sense as you should save if it's not an empty file	changed it to if(testFile !=null) removed the else statement as well	Instructor Client GUI - Grade Test	S1
PropDialog.java	In function "compCheckboxActionPerformed()", there is no any implementation. As a result, the programming questions cannot be compiled.	Implement the relevant code in the listener function.	Instructor Client GUI - Create Test, Edit Test	S1
2	In function "invalidateCheckboxActionPerformed()", there is no any implementation. As a result, the exam will not be tested for invalidation if the window loses focus.	Implement the relevant code in the listener function.	Instructor Client GUI - Create Test, Edit Test	S1

	The variable "test" is local. In "saveProperties()" function, current properties are saved into the variable's attributes. As the variable is local (not global), old properties are overwritten with new			
	properties everytime the constructor of "PropDialog.			
	java" is called. In other words, the properties are not		Instructor Client GUI -	
3	successfully saved.	Set the variable as global.	Create Test, Edit Test	S1
	Variables "timeFmt", "dateText" and "stText" are		Instructor Client GUI -	
4	declared and initialized, but never used.	Remove the variables.	Create Test, Edit Test	S3
SummaryDialog.java				
	Variable "totalEarned" is set to variable "earned". The			
1	variable "totalEarned" should be added with the variable "earned", not be set with.	Change line 42 to "totalEarned += earned;".	Instructor Client GUI - Grade Test	S1
	Text value of "pctLabel" is depended on both			
	variables "totalEarned" and "earned". As the variable	Verify the involved variables are		
	"totalEarned" is wrong, the text value of "pctLabel"	calculated correctly to stop the	Instructor Client GUI -	
2	will be wrong as well.	butterfly effect.	Grade Test	S1
		Initialize the double array object		
	In "setModel()" function of JTable "table", the first	with empty string or null at line	Instructor Client GUI -	
3	argument ("new Object [][]") is not initialized.	73.	Grade Test	S1
	Initialization of "types" and "canEdit" is repetitive. If		a a	
	more elements are needed (like hundreds of		Instructor Client GUI -	G.2
4	elements), repetitive initialization will be tedious.	Use loop for initialization.	Grade Test	S3
	First argument of "isCellEditable()" function,	D	Instructor Client GUI -	G2
5	5 "rowIndex" is useless.	Remove the argument.	Grade Test	S3
Question.java				
		Initialize all string variables to "",		
		and all integer variable to 0 in	Instructor Client GUI (All) /	
1	The variables are not initialized.	constructor to avoid exception.	Student Client GUI	S3
		change the string format"h:mm a"		
		to "hh:mm a" and modify		
	String of format "h:mm a", if the variable hour is	corresponding code of Time(String		
2	2 10~12, there will be an exception.	str) constructor.	Student Client GUI	S1
		Remind user to input integers		
		instead of other type if the user	Instructor Client GUI (All) /	
3	Time didn't check the validation of data.	input incorrectly.	Student Client GUI	S1

	The number of compiles incremented when call getNumOfCompiles function.	" return numOfCompiles; "instead of "return ++numOfCompiles;"	Instructor Client GUI (All) / Student Client GUI	S1
	Comments are duplicated returned, in function	"return comment;" instead of	Instructor Client GUI (All) /	
	2 getComments	"return comment +" "+ comment";	Student Client GUI	S2
MultipleChoice.java				
, ,	The content of string array choices didn't pass to this choices.	Assign choices to this choices in function MultipleChoice	Instructor Client GUI (All) / Student Client GUI	S1
Compile.java				
	The argument of the function getProcess has not be used in the function.	Correct the code of get property to fileName instead of os.name.	Student Client GUI	S2
TestProperties.java				
	The class's functions will be carried out by its counterpart "PropDialog.java". In other words, the class does nothing and can be deleted without creating			
	1 any error.	Remove this class. (If this class does perform	N/A	S2
	"initComponents()" function does not set format for date and time input fields. As a result, the user can	something useful and cannot be removed) Implement code to set format for the date and time input		
	2 insert arbitrary values into the fields.	fields.	N/A	S1
	Black Box			
Defect Number	Defect Description	How to Correct the Defect	Module in Which the Defect is Found	Severity (S1, S2, or S3)
	If a user clicks on "Create Test", a file chooser will pop up. If the user clicks on the "open" button in the file chooser, the program will quit unexpectedly.	Use InstructorTestify.main(new String[] {""}); instead of InstructorTestify.main(new String [] {"open"}); .	Instructor Client GUI - Create Test	S1
	If a user clicks on "Create Test", a file chooser will pop up. If the user clicks on the "cancel" button in the file chooser, the program opens the menu for the edit	The program should call System. exit(0); if the user clicks on the cancel button in the openExam	Instructor Client GUI -	51
	test option.	function.	Create Test	S1

	Nothing happens when test properties option is selected.	Add action listener for the test properties menu item.	Instructor Client GUI - Create Test	S1
3	Selected.	Prompt for a location to save the	Create Test	31
	You are able to modify fields without first opening or	file at the beginning of the	Instructor Client GUI -	
	creating a new test.	function newTest .	Create Test	S2
	If you try to move to the next question leaving the	runction [new rest].	Cleate Test	32
		The program only logg on error if		
	points possible field blank, you receive a warning, but	The program only logs an error if the field is left as blank. It should		
	can still move on (assigning severity 2 as the points		Instructor Client CI II	
	can be "manually calculated and determined"	also prompt for nonempty value in		G2
3	afterwards).	saveQuestion function.	Create Test	S2
		The pointsPossible variable should	i i cii ciii	
	Once the point field is modified, it stays the same for	be set in the loadQuestion	Instructor Client GUI -	0.1
6	each question	function.	Create Test	S1
	When a new question of type multiple choice is	The addChoice function is called	T 4 CI' 4 CITI	
	selected, when you attempt to add choices, it adds the	twice. The program should call the		G1
7	same choice twice	function only once.	Create Test	S1
	When adding choices for multiple choice, it allows	The actual choice for the multiple		
	you to add multiple copies of the same answer(both	choice question is not checked.		
	are entered twice per attempt, total of 4 identical	The program should check for	Instructor Client GUI -	
8	answers after 2 identical add's)	duplicates in the choices.	Create Test	S1
		The program only logs an error if		
	When adding a multiple choice question, you are able	the prompt is left as blank. It		
	to move on to next question without adding prompt,	should also ask for nonempty	Instructor Client GUI -	
9	you get a warning, but it does allow you to continue	value in saveQuestion function.	Create Test	S1
	When adding a multiple choice question, If you	The program only logs an error if		
	attempt to add choices before entering a prompt, you	the prompt is left as blank. It		
	get a warning, but the choices are still added (not sure	should also ask for nonempty	Instructor Client GUI -	
10	if intentional)	value in saveQuestion function.	Create Test	S1
		The program only logs an error if		
	When adding a multiple choice question, You are able	the answer field is left as blank. It		
	to move on to the next question without completing	should also ask for nonempty	Instructor Client GUI -	
11	the answer for the current multiple choice question	value in saveQuestion function.	Create Test	S1
		The program only logs an error. It		
	When adding a multiple choice question, You are able			
	to move on to the next question without completing	nonempty values in saveQuestion	Instructor Client GUI -	
12	choices for a multiple choice question	function.	Create Test	S1
	When adding a multiple choice question, if you add	The answer is not saved in the		
	an answer, then add a choice, the answer will disapear	saveQuestion function. The	Instructor Client GUI -	
	from the GUI	program should save it as well.	Create Test	S1
	When adding a short answer question, you are able to	The program only logs an error. It		
	move on without adding a prompt, however a warning		Instructor Client GUI -	
	is displayed	prompt in saveQuestion function.	Create Test	S1

		The answer is not checked in the		
	When adding a short answer question, you are able to	saveQuestion function. The program should check whether it is	Instructor Client GIII	
15	move on without adding an answer	empty as well.	Create Test	S1
13	When adding a programming question, you are able to		Create Test	51
	move on without entering a prompt or a file name,	should also ask for nonempty	Instructor Client GUI -	
16	however a warning is displayed	prompt in saveQuestion function.	Create Test	S1
	When adding a programming question, you are able to			
	move on without adding an answer, no warning is	The answer is not checked in the		
	displayed (assigning severity 2 as the instructor can	saveQuestion function. The		
	choose to formulate the answers after completion of	program should check whether it is	Instructor Client GUI -	
17	the test)	empty as well.	Create Test	S2
	When adding a programming question, if you add a			
	filename, then click next, the field remains filled out	In the saveQuestion function, file		
	for the next question, but is uneditable if the next	name is not updated. It should be	Instructor Client GUI -	
18	question is not a programming question	updated.	Create Test	S1
	If you create a short answer, multiple choice or	The answer is not checked or		
	programming question, then move on, and return to	saved in the saveQuestion	In the control of the	
10	the question, the answer has been removed from the GUI	function. The program should save it.	Create Test	S1
19	GUI	If "previous" is clicked, The	Create rest	51
		prompt loaded is the prompt of the		
	If you create a short answer question, then return to	next question; if "next" is clicked,		
	the question using prev/next, or select question	The prompt loaded is the prompt		
	number, the prompt sometimes will be removed from	of the previous question. This can		
	GUI. The result seems inconsistant, and cannot	be corrected by switching	Instructor Client GUI -	
21	replicate consistently.	current++ and current .	Create Test	S1
		In function		
		nextQButtonActionPerformed,		
		current++; In function		
	Next and previous buttons are switched, they take you		Instructor Client GUI -	
22	in the opposite direction	current;	Create Test	S1
	If you cycle back through questions, the program	The program only logs errors. In		
	warns you if you try to delete and leave a relevant	the error function, the program	In the control of the	
22	field blank, but it still allows you to continue with a	should handle error promptly	Instructor Client GUI -	C1
23	blank field	based on the error code. The length of the listModel is	Create Test	S1
	The program allows you to delete questions, but the	decremented in the function. The		
	drop down menu does not properly display the current		Instructor Client GUI -	
24	question numbers	of the listModel .	Create Test	S1
	1 1			1.0 -

	After questions are deleted, the drop down menu no	The dropdown menu uses another		
	longer works properly for the selecting a question to	list instead of listModel. It should	Instructor Client GUL -	
	modify	uses listModel as well.	Create Test	S1
	When adding a point value to a question, the field	The pointsPossible variable should	Create 1 est	51
	stays the same when adding a new question, or	be set in the loadQuestion	Instructor Client GUI -	
	switching to a previous question	function.	Create Test	S1
20	switching to a previous question	Create a global list to store names	Create Test	51
		of all saved tests. In		
		"InstructorTestify.java"		
		"saveQuestion()" function, before		
		executing "question.setFile()",		
		compare "fileTextField.getText()"		
		with all names stored in the global		
		list. If "fileTextField.getText()"		
		records the same name as one of		
		the names in the global list, pop up		
		a warning message indicating the		
	If you attempt to save a test with the same name as	issue, and let the user to choose		
	another test, the old test is automatically overwritten,	whether to overwrite the old test or	Instructor Client GUI -	
	with no warning	not.	Create Test	S1
	·	The action listener for the "Save		
		As" menu item does not prompt		
		for the location of the file to save.		
		Need to add file chooser in the		
	If you try to click "save as" twice in the same session,	action listener if file name is not	Instructor Client GUI -	
28 1	the "save as" menu does not appear	specified.	Create Test	S2
		In "InstructorTestify.java"		
		"saveQuestion()" function,		
		implement the code to test whether		
		a file name is empty or not for all		
		three types of questions (only		
		programming-type questions' part		
		is implemented). It can be done by		
		implement the code repetitively for		
		each of the question type, or as a general case applicable to all the		
		question types. Note that nothing		
		happens when the multiple-choice		
		and short answer questions are		
	If you try to save a file with no name, nothing	saved due to internal logic of the	Instructor Client GUI -	
	happens, no warning is displayed	program.	Create Test	S3
29	nappons, no warning is displayed	program.	Crouic rest	03

30	If you try to open a previously saved test, the program opens a different test, but the contents are not correctly displayed	The program only updates the content when it is selected. It needs to reload all contents once a new test is opened.	Instructor Client GUI - Create Test	S1
	If you select new test before saving the current test, your current progress is lost with no warning	The program does not save progress when new test is selected. In the action listener, it should check whether a test is being displayed.	Instructor Client GUI - Create Test	S1
	Clicking on "Grade Test" button will open up a screen	Correction: Clicking on "Grade Test" button will open up a screen to "Edit Test". In "InstructorFirstScreen.java" "gradeTestButtonActionPerformed(function, call "GraderTestify. main()" instead of	Instructor Client GUI -	
32	to grade tests.	"InstructorTestify.main()".	Grade Test	S1
33	Although there is an option "Open Key" in the drop down menu, there is no way to create a key file for an exam.	Correction: This is not a bug as the instructor needs to open an exam to load the key answers and then choose "Open Student Exam" to grade the exam.	Instructor Client GUI - Grade Test	S1
	After clicking on "Open Key", a file chooser will show up, clicking on a file yields no responses.	Correction: This is not a bug as the instructor needs to open an exam to load the key answers and then choose "Open Student Exam" to grade the exam.	Instructor Client GUI - Grade Test	S1
35	After clicking on "Open Student Exam" and choosing an exam file, the program could not load exam information.	Correction: This is not a bug as the instructor needs to open an exam to load the key answers and then choose "Open Student Exam" to grade the exam.	Instructor Client GUI - Grade Test	S1
36	After clicking on "Open Student Exam" and choosing an exam file twice, the program could load exam information.	Correction: This is not a bug as the instructor needs to open an exam to load the key answers and then choose "Open Student Exam" to grade the exam.	Instructor Client GUI - Grade Test	S1

clicking	ogram does not have any responses after g on "Auto-grade multiple choice" button in the own menu, which should auto-grade mutltiple	"autogradeMenuItemActionPerform		S1
clicking	ogram does not have any responses after g on "Save" button in the drop down menu,	Correction: a pop-up message asking the user to save the file or not will be shown as code for "save as" is implemented. Swap code in "saveMenuItemActionPerformed()" function with that of original "saveAsMenuItemActionPerformed function.		S1
The pro	ogram does not have any responses after g on "Save As" button in the drop down menu, should save the current grade and progress as a	A call for "save as" is, in fact, a "save" action. Swap code in "saveAsMenuItemActionPerformed function with that of original "saveMenuItemActionPerformed()" function. (The user will not know whether the file is successfully saved or not though; display a message on whether the file has been successfully saved by adding relevant code after the line running "test.save(testFile);" will be	Instructor Client GUI -	S1
The pro	ogram does not have any responses after g on "Exit" button in the drop down menu,	The function "exitMenuItemActionPerformed()" has no any implementation. Implement the function by calling	Instructor Client GUI -	S1

	Clicking on the "Show summary" button will yield a	For the numbr of total points, In line 67 of "Question.java" should be written as "this.ptsEarned += ptsEarned;" (refer 43). For the percentage, as its value is determined from line 47 of "summaryDialog.java", it is affected by the incorrect number of total points. Hence, correct the line 67 of "Question.java" will correct the percentage part as well (provided that "getPtsPossible()"		
	miscalculated summary: the number of total points	function of "Question.java" is	Instructor Client GUI -	
41	and percentage are incorrect.	correct). In "GraderTestify.java"	Grade Test	S1
		"loadStudentAnswer()" function, "setText()" function should get the answer from "test" variable, not "key" variable. In other words, line 709 should be "answerTextArea.		
42	The default key answer is identical to the student answer.	setText(test.getQuestion(current - 1).getAnswer());".	Instructor Client GUI - Grade Test	S1
	The scores stored in the student exam file changes each time it is loaded into the program.	In "Question.java" "setPtsEarned()" function, "ptsEarned" variable should be added, not reset. In other words, line 67 should be written as "this. ptsEarned += ptsEarned;".	Instructor Client GUI - Grade Test	S1
44	The default label next to "Language" is "jLabel3", which is not a valid language.	Set the default value of setText() function to be one of the languages (JAVA, C, CPP), or a null string.	Instructor Client GUI - Grade Test	S2
45	Clicking on the "next" button changes to the previous question.	In "InstructorTestify.java" line 482, "current++" instead of "current".	Instructor Client GUI - Grade Test	S2
46	Clicking on the "previous" button changes to the next question.	In "InstructorTestify.java" line 468, "current" instead of "current++".	Instructor Client GUI - Grade Test	S2
47	The comments and choices text areas should be disabled(gray) when no test is loaded into the program.	Set text fields to disabled until a test is loaded	Instructor Client GUI - Grade Test	S3

		This is intentional, you can't see all		
	Clicking on the "down" arrow in the "Comments" text	comments at once in the small	Instructor Client GUI -	
48	area will scroll the comments out of view.	window	Grade Test	S3
		In "GraderTestify.java" line 301,		
	The label for "student answer" should be more to the	increase magnitude of the three	Instructor Client GUI -	
49	right and align with the text area below.	arguments within ".addGap()".	Grade Test	S3
	The "Points Possible" should be a label instead of a	Change the variable into the label	Instructor Client GUI -	
50	text field to indicate that the value is unchangable.	type rather than the text type.	Grade Test	S3
	The "Language" label becomes gray when the	The program should enable the		
	question is of type programming. This does not	language label if the question is of	Instructor Client GUI -	
51	make sense since the "C" label remains.	type programming.	Grade Test	S3
		The program does not have the		
		function to check compilation. No		
		value is displayed. It should add	Instructor Client GUI -	
52	There is no value next to the "compiles" label.	code to check.	Grade Test	S3
	Clicking on "Exit Test" button will bring up a file			
	chooser. The button's message is counter intuitive. It			
	should be something like "Start Test". To be more			
	precise, it should be "Open Test" (from the last page).	On line 142, the openAction is		
	Furthermore, displaying a file chooser without	called when it should be the close		~~
69	noticing the users is not user-friendly.	Action	Student Client GUI	S3
	Clicking on "Grade Test" button will open the a	Swap action listeners for "Grade	Instructor Client GUI - Edit	G.1
53	screen to edit test.	Test" and "Edit Test" buttons.	Test	S1
- 1		Swap setText() functions of the	Instructor Client GUI - Edit	G1
54	Next and previous buttons switched place.	buttons.	Test	S1
	When you edit the "Points Possible" box, it applied to	set the textfield to empty in		
	all questions in the exam. That means every question	function	Instructor Client GUI - Edit	G1
55	will weight the same points.	newTestMenuItemActionPerformed	1 est	S1
		In function deleteChoiceButtonActionPerforme		
	When you delete the "Choices" entry, it will reappear	locate saveQuestion() to the end of		
56	again even after you save it.	the function	Test	S1
30	again even after you save it.	delete the duplicated code	1051	31
	When you add an entry in the "Choices" entry, there	((MultipleChoice) question).	Instructor Client GUI - Edit	
57	will be two identicals entries.	addChoice(newChoice);	Test	S1
31	The number select options will not bring you to the	addenoice(newenoice),	1031	01
	correct question number. It will still remains at the	After the reconstructComboBox()		
	current question after you clicked different question	is fixed in defect 61, this defect is	Instructor Client GUI - Edit	
58	number.	fixed.	Test	S1
30	numoer.	IIACU.	1000	O I

59	The "Answer" box will not update after you clicked next or previous button.	In function saveQuestion(), add an if else statement to set the Answer of the question by using the setAnswer(answerTextArea. getText()).	Instructor Client GUI - Edit Test	S1
		In function saveQuestion(), add an if else statement to set the Answer of the question by using the	2.000	
	The "Answer" box will not update even after you save	setAnswer(answerTextArea.	Instructor Client GUI - Edit	
60	1 22	getText()).	Test	S1
	After opening an existing exam file, the number select option showed nothing at the last entry. When you clicked it, it does nothing. However, after you click	In the function		
61	previous or next, it will showed the correct data but the last entry still showed blank in the number select options.	reconstructComboBox(), the test. length()-1 in the for loop should change to test.length().	Instructor Client GUI - Edit Test	S1
01	options.	After the reconstructComboBox()	Test	31
62	Refer to defect 61. After you add a new question, the number select option will display correctly.	is fixed in defect 61, this defect is fixed.	Instructor Client GUI - Edit Test	S1
63	After you delete an existing question, the number select option will not update. It will still display the deleted question number.	In deleteChoiceButtonActionPerforme add code for reset the question numbers if deletion executed successfully.	Instructor Client GUI - Edit Test	S1
64	The File and Language for the programming questions still showed their data in other question number but it has been greyed out.	set the corresponding text to empty for functions next button listening function nextQButtonActionPerformed.	Instructor Client GUI - Edit Test	S3
	The Test -> Properties page needs to click "apply" twice to turn off the window.	In showProperties(), the PropDialog class is being called twice. Remove the repetitive code.	Instructor Client GUI - Edit Test	S3

		Write an "if" statement to test		
		whether the data inputted is		
		invalid. If so, pop up an error		
		message indicating an invalid data		
		has been inputted, and set the year,		
		month and day data to their default		
		value. (In fact, automatically revert		
		the invalid data to the random		
	In the Test -> Properties, date box, when user changed	correct formatted date is		
	the year, month and day data to an invalid data it will	acceptable. In this case, show a		
	not pop up an error message. Instead it will	relevant message before reverting		
	automatically revert those data to a random correct	the invalid data is necessary to	Instructor Client GUI - Edit	
66	formatted date.	inform the user).	Test	S2
00	ZOTIMINO MINO.	The function	1000	2
		"cancelButtonActionPerformed()"		
		has no any implementation.		
		Implement the function by calling		
	In the Test -> Properties, when I clicked the cancel	dispose() to close the GUI	Instructor Client GUI - Edit	
67	button, it does nothing.	window.	Test	S3
07	oution, it does nothing.	In showProperties(), the	Test	
	In the Test -> Properties, I need to clicked the exit	PropDialog class is being called	Instructor Client GUI - Edit	
68	button on the top right twice in order to exit.		Test	S3
00	outton on the top right twice in order to exit.	On lines 612 and 630 there are	Test	55
		extra if statements that cause the		
		next / previous button to skip a		
	There is no response after clicking on "Previous" and	question on the exam for no		
70	"Next" buttons on the student main page	reason.	Student Client GUI	S1
70	110At outlons on the student main page	In function openActionPerformed	Student Chent GOI	51
		delete the code "if(openBool ==		
71	"Exit test" button does not work at first click	false) statement and its content	Student Client GUI	S1
/1	When the student choose a wrong file, the main page	The only error message entered is	Student Chent GO1	51
	should prompt coresponding error instead of	the "please enter first" error, no		
	reminding user "please enter both last and first name	error message exists for any other		
72	" please effect both last and first name	error	Student Client GUI	S3
12		The only error message entered is	Student Chent GO1	
	The student click cancel button when he choose file,	the "please enter first" error, no		
	the system prompt a error "please enter both last and	error message exists for any other		
72	first name"	error	Student Client GUI	S3
13	mot name	Add a check for null last name like	Student Chent GUI	UJ
7.1	The last name can be empty when starting the test.	the one for a null first name	Student Client GUI	S1
/4	The fast hame can be empty when starting the test.	the one for a null first flame	Student Cheft GUI	01

75	The name can have special characters, number or signs inside.	Add a check for special characters after the null checks for first/last name	Student Client GUI	S1
76	The students can change the questions in the "Question Prompt" for short-answer type questions.	Make the text field for question prompt uneditable	Student Client GUI	S1
77	Amount of points assigned for each question is incorrect. It is always 25.	The point value is hard coded, change to reflect the point value specified when the test is created	Student Client GUI	S1
78	The first question is missed.	The starting index is incorrect	Student Client GUI	S1
	The students start at the second page. The third question is shown when the students just start the test. The students have to press "Previous" to access the second question.(Note that the first question is		Co. 1 a Cli a Clil	
	skipped.) when navigating to next questions, the answer inputted for a previous question will remain at the field.	The starting index is incorrect empty answer fields when the next button is clicked	Student Client GUI Student Client GUI	S1 S1
81	Several questions from behind are skipped.	there are two if statements in student testify in the previous/next fucntions that should be removed. they skip the next question after any question with a number mod 3	Student Client GUI	S1
	After the first submission, the students can still press "Previous" to go back to the questions.	In "StudentTestify.java", remove line 469 to 474. The "Previous" button is unnecessary.	Student Client GUI	S1
	Nothing happens when the students press "Open Test" in the last page. (The button should be "Exit Test" from the first page)	correct the text shown on the button, add listener to close text	Student Client GUI	S1
84	Multiple submissions are allowed. The "Submit" button does not gray out after the first submission.	This may be intended, otherwise test should exit after first submisson, add exit listener to submit button	Student Client GUI	S1
85	If the students start the test with the programming type question, the question will change into a multiple choice question.	changed to be dynamic	Student Client GUI	S1
86	When the students reach the last question of the test(if the program does not freeze), the "Next" button will change to "Submit". The students can press "Previous" to go back to the previous questions, but the button will remain to be "Submit".	Change the check for the submit button to see if it is equal to the end of the index, instead of current check	Student Client GUI	S1

		Change question fields to be		
87	Some questions field are empty and can be editted.	uneditable text fields	Student Client GUI	S1
	The page number is disordered. For instance, the			
	students start at page 2, but navigating to next page	This is due to unnecessary if		
88	will show a page number of 4.	statement; remove the statement.	Student Client GUI	S2
		On line 674 of studentTestify.java,		
		Only compiles if there are an odd		
	The compiler does not work for the programming	number of files. remove this if		
89	question. It prompts an error message.	statement	Student Client GUI	S1
	If number of the questions exceeds a certain number,			
	the students will not be able to submit their test when			
	reaching the last question. The "Submit button" is not			
	available. Instead, the "Next" button will remain.	This is due to unnecessary if		
	Pressing it yields nothing. Furthermore, the students	statements in the next/previous		
90	cannot press "Previous".	method, they should be removed	Student Client GUI	S1
	The question and answer does not match each other.	and the second s		
	For example, a programming type question is shown			
	with answer prompt of multiple-choice due to the	Correct starting array index so that		
91	disalignment.	questions and answers align	Student Client GUI	S1
71	In the main page, there is no password field. This	Add a password field, and check it	Student Cheft Ge1	51
	means that any student can log into another student's	against the password stored for the		
92	account.	username	Student Client GUI	S1
72	The students can start more than one test with the	Is this a bug? or should students be	Student Cheft Ge1	51
93	same first name and last name at the same time.	able to take multiple tests at once	Student Client GUI	S1
73	The code of ExitMenuItem action performed did not	added a statement to exit the	Instructor Edit/Grade Test	51
94	exit the program	program	GUI	S1
71	exit the program	added a setEnabled(false) initially	GOI	51
	Made the auto-grade option greyed out until a test is	and setEnabled(true) after test is	Instructor Edit/Grade Test	
05	open	opened	GUI	S1
73	орен	Removed the jLabel3 from the	Instructor Edit/Grade Test	<i>O</i> 1
96	The jLabel for Language said jLabel3	ilabel	GUI	S3
70	The jeuder for eariguage said jeuders	Got rid of the question mark and	Instructor Edit/Grade Test	
97	jlabel2 said "Compile?"	made it "Compile"	GUI	S3
71	nextQButton and prevQButton would perform the	mude it Compile	001	
	wrong roles. nextQButton would make it go to a			
	previous question while prevQButton would make it	switched the code of nextQButton	Instructor Edit/Grade Test	
98	go to the next question	for prevQButton and vice verse	GUI	S2
70	go to the next question	Set openStudentMenuItem to be	G01	52
		disabled until a key was opened.		
		This fixed the crash if you try to		
	The button "Open Student Exam" was enabled, but	open an exam before you open a	Instructor Edit/Grade Test	
00		1 1	GUI	S1
99	you needed to open the key first.	key, and opening the exam twice	UUI	31

	Comments text area was enabled even though there	changed CommentsTextArea to be		
100	was nothing opened	disable until a test is opened	GUI	S3
		Increased the gap size to make it		
	Student Answer label was not aligned with the answer	be aligned with the text area for	Instructor Edit/Grade Test	
101	box	the answer	GUI	S3
	If you press the previous button from a multiple	Made it so listModel is cleared		
	choice question, it would keep the answers even if the	every time you click previous or	Instructor Edit/Grade Test	
102	new question is a short answer	next	GUI	S2
		Changed it, so it no longer can		
		give negatives points. As well as		
		corrected the formula to calculate	Instructor Edit/Grade Test	
103	Summary would show incorrect calculations	the proper grade	GUI	S1
		In the		
		autogradeMenuItemActionPerforme		
		made it skip to the next question if		
	Auto-grade feature would crash, if there were non-	it was not a multiple choices	Instructor Edit/Grade Test	
104	multiple choices questions	question	GUI	S1
		Added a Dialog window to pop up		
		that a save has been successfull.		
		Added it to open in the		
		saveAsMenuItemActionPerformed		
		and		
	Clicking "Save" and "Save As" would not	saveMenuItemActionPerformed	Instructor Edit/Grade Test	
105	acknowledge that it has been saved	functions	GUI	S2