Influence of unit testing on software maintenance.

This study aims to investigate the influence of unit tests on software maintenance activities. For this, each participant will be presented to a workspace having a class and its test, which will be failing. The participant must then first analyze the code and identify the maintenance activity necessary to obtain the green bar (the test passes), fix the class being tested (codefix) or the test class (testfix). After identifying the activity to be performed, the participant must perform and submit their correction. Finally, the participant will answer the questionnaire about their perception of the activity performed.

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1. Email *

Open the eclipse, and analyze the code to identify which activity should be performed. Identify an activity to be performed and answer the following questions.

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3.

Skip to question 5

2.	Select the	workspace	used in th	e activity.
				,

Mark only one oval.	
workspace_comparators_11	Skip to question 4
workspace_comparators_23	Skip to question 4
workspace_comparators_42	Skip to question 3
workspace_comparators_55	Skip to question 3
workspace_comparators_68	Skip to question 4
workspace_comparators_71	Skip to question 3
workspace_listpopulation_11	Skip to question 4
workspace_listpopulation_23	Skip to question 4
workspace_listpopulation_42	Skip to question 3
workspace_listpopulation_55	Skip to question 3
workspace_listpopulation_68	Skip to question 4
workspace_listpopulation_71	Skip to question 3
workspace_comparatorchain_11	Skip to question 4
workspace_comparatorchain_23	Skip to question 4
workspace_comparatorchain_42	Skip to question 3
workspace_comparatorchain_55	Skip to question 3
workspace_comparatorchain_68	Skip to question 4
workspace_comparatorchain_71	Skip to question 3
What task must you perform for th	ne test to pass? *
Mark only one oval.	
Codefix	
Testfix	

. What task must you perform for the test to pass? *				
Mark only one oval.				
Codefix Skip to question 6				
Testfix Skip to question 6				
Skip to question 6				
There is a lack in the tested code, you must correct it to get the green bar (the test pass).	sts			
5. Perform the codefix and submit your solution. * Submit the java file containing your change.				
Files submitted: Skip to question 7				
There is a lack in the tested code, you must correct it to get the green bar (the test Testfix	ts pass).			
6. Perform the codefix and submit your solution. * Submit the java file containing your change. Files submitted:				
Skip to question 7				
User perception				

7.	The task was clear. *
	Mark only one oval.
	Strongly disagree
	Disagree
	Neither
	Agree
	Strongly agree
•	
8.	I had enough time to finish the task.
	Mark only one oval.
	Strongly disagree
	Disagree
	Neither
	Agree
	Strongly agree
9.	It was easy to identify the bug. *
	Mark only one oval.
	Strongly disagree
	Disagree
	Neither
	Agree
	Strongly agree

10.	It was easy to fix the bug. *		
	Mark only one oval.		
	Strongly disagree		
	Disagree		
	Neither		
	Agree		
	Strongly agree		
11.	I am certain my fix is correct. *		
	Mark only one oval.		
	Strongly disagree		
	Disagree		
	Neither		
	Agree		
	Strongly agree		
12.	The class was easy to understand. *		
	Mark only one oval.		
	Strongly disagree		
	Disagree		
	Neither		
	Agree		
	Strongly agree		

13.	The unit test was easy to understand. *
	Mark only one oval.
	Strongly disagree
	Disagree
	Neither
	Agree
	Strongly agree
14.	I am certain I produced a good fix. *
	Mark only one oval.
	Strongly disagree
	Disagree
	Neither
	Agree
	Strongly agree

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