Background Information

Please enter your email address
How do you test your own code? (Check ALL that apply)
If you test differently depending on the language or programming environment, explain.
Print statements
Unit tests
Testing tools
Other:
Do you have experience with creating/editing/maintaining unit tests?
O Yes O No

Unit Testing

Please rank the following motivations for writing unit tests based on your experience (Drag up or down to reorder).

To ensure that a unit functions as expected
To accept a unit from other sources
To specify a unit (test first)
To improve the program quality in general
To meet program requirements
Other:

How do you spend your program development time (in percentage)?

Writing new code	0
Writing new tests	0
Debugging and fixing	0
Refactoring	0
Other:	0

How important are the following aspects for you when you write new unit tests?

	Not at all important	Slightly important	Moderately important	Very important	Extremely important
Code coverage	\circ	\circ	\bigcirc	\circ	\bigcirc
Execution speed	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Robustness against code changes	0	\circ	0	\circ	\bigcirc
How realistic the test scenario is	0	0	0	0	\bigcirc
How easily faults can be localised/debugged if the test fails	0	0	0	0	0
How easily the test can be updated when the underlying code changes	0	0	0	0	0
Sensitivity against code changes	\circ	\circ	\circ	\circ	0

Please select which techniques you apply when writing new tests (Check ALL that apply)

☐ Automated test generation

☐ Code coverage analysis

	Mutation analysis
	Test-driven development
	Systematic testing approaches
	Mocking/stubbing
	Other: Never
,	What do you use automated unit test generation for? (Check ALL that apply)
	Exercising specifications
	Exercising assertions in the code
	Exercising parameterised unit tests
	Regression testing
	To complement manually written tests
	Other:
	Please rank the following aspects of writing a new unit test according to their difficulty (Drag up or down to reorder)
	Determining what to check
	Finding and creating relevant input values

Identifying which code/scenarios to test	
Finding a sequence of calls to bring the unit under test into the tar	get
Isolating the unit under test	

What makes it difficult to fix a failing test? Please rank by importance (Drag up or down to reorder)

The test reflects outdated behavior
The test is difficult to understand
The code under test is difficult to understand
The test reflects unrealistic behavior
The test is flaky (it fails non-deterministically)

Please indicate your level of agreement with the following statements

			Neither			
			agree			
Strongly		Somewhat	nor	Somewhat		Strongly
disagree	Disagree	disagree	disagree	agree	Agree	agree

	Strongly disagree	Disagree	Somewhat disagree	Neither agree nor disagree	Somewhat agree	Agree	Strongly agree
Writing unit tests is difficult	0	0	0	0	0	\circ	0
I enjoy writing unit tests	0	0	0	0	0	0	0
I would like to have more tool support when writing unit tests	0	0	0	0	0	0	0
I would like to have more unit tests	0	0	0	0	0	0	0
Maintaining unit tests is difficult	0	0	0	0	0	0	0
I usually have sufficiently many unit tests	0	0	0	0	0	0	0