Programming Background

Before the evaluation, general Qs regarding participants backgrounds. Roll number will be used for matching responses for pre-survey, evaluations, and post-survey. It will be discarded after the experiment and will NOT be used in any reports/results generated or for any kind of evaluation of TAs/Tutors.

*Required

1. **Your Roll Number** *

   _____

2. **How much experience do you have in programming (excluding experience of programming in Bachelors' classes)?** *

   Mark only one oval.

   ( ) <= 6 months

   ( ) > 6 months but <= 1 year

   ( ) > 1 year but <= 2 years

   ( ) > 2 years but <= 4 years

   ( ) More than 4 years

3. **How would you rate your level of skill in C programming** *

   Mark only one oval.

	1	2	3	4	5	
Novice Programmer	( )	( )	( )	( )	( )	Advanced Programmer

4. **For a typical buggy submission, give the % of total time you spent during evaluation task for the following** *

   Mark only one oval per row.

	<=10 %	<= 25 %	<=50 %	> 50%
Bug reproduction/understanding	( )	( )	( )	( )
Bug diagnosis/ localization	( )	( )	( )	( )
Bug fixing	( )	( )	( )	( )

5. **What is your approach to Bug diagnosis and fixing?** *

   Mark only one oval.

   ( ) Systematically going line by line, start to end

   ( ) Heuristically analysing blocks of code

   ( ) Trial and Error

Your Opinion Counts

If a genie gives you a program repair tool as a wish, what features would it have? Please answer the following subjective questions about your wish :)

6. **What properties should an auto generated bug diagnosis have? (A "diagnosis" tells you about the error, NOT how to fix it)** *

7. **What properties should an auto generated bug- fix have? (bug-fix: The actual steps to repair a diagnosed error)** *

8. **What features should an automated bug diagnosis tool have?** *

9. **What features should an automated bug-fixing tool have?** *

10. **If you are asked to design a "practical" automated tutor/TA to help students identify/repair their bugs, what kind of suggestions would it provide?** *

11. **Students make the following three kinds of errors: syntactic errors, semantic errors, and goal errors. Which errors do you find difficult to identify and wish to get help from a tool while grading?** *

Tick all that apply.

- [ ] Syntax Error
- [ ] Semantic Error
- [ ] Goal Errors
- [ ] Other: _____