

Survey on Programming Attitudes

EECS 168 Programming I

This survey is designed to evaluate your programming experience and your perceptions and use of testing and design practices.

What is your KU ID: _____

Previous College Computer Science Courses (programming based)

How many college computer science courses have you taken at KU or elsewhere that contained a substantial computer programming component?

- 0
- 1
- 2
- 3
- 4 or more

Previous Other Computer Science Courses (programming based)

How many non-college computer science courses have you taken that contained a substantial computer programming component?

- none
- 1 semester in high school
- 2 semesters in high school
- 3 or more semesters in high school
- 1 semester or more elsewhere (short course or vocational school)

Previous Computer Programming Experience

Please rate your level of competence with the following programming languages? Circle one number for each language/group of languages. Use the following scale:

1. Never programmed in this language.
2. Minimal experience. Maybe compiled a test program.
3. Some experience. Wrote one or two small programs.
4. Substantial experience. Wrote several small to medium-sized programs.
5. Extensive experience. Wrote many programs.

C++	1	2	3	4	5
Java	1	2	3	4	5
Visual Basic	1	2	3	4	5
Python, Perl or other scripting based languages	1	2	3	4	5
JavaScript, html, ASP or other web based languages	1	2	3	4	5
Other, please specify _____	1	2	3	4	5

Time Since Last Programming

When did you last write a computer program in the following language?

Circle one number for each language/group of languages. Use the following scale:

1. Never programmed in this language before.
2. Within last three months.
3. Four to twelve months ago.
4. One to three years ago.
5. More than three years ago.

C++	1	2	3	4	5
Java	1	2	3	4	5
Visual Basic	1	2	3	4	5
Python, Perl or other scripting based languages	1	2	3	4	5
JavaScript, html, ASP or other web based languages	1	2	3	4	5
Other, please specify _____	1	2	3	4	5

Attitude Towards Testing

How important do you think it is to test computer programs that you write?

- not important, I never make mistakes
- not important, my projects are only for a grade in the class
- somewhat important, so I do a little bit of testing
- important; I try to test my programs if I still have time before the deadline
- very important; a project is not done until it is thoroughly tested
- I don't know what it means to test a computer program

Attitude Toward Design

How important is it to design computer programs before they are written?

- not important, I just start programming and don't think about the design
- not important, I develop the design as I write the code
- somewhat important, so I do a little bit of design before I start writing code
- important; I try to design most of my programs before I start writing code
- very important; I never start programming until I have a thorough design complete
- I don't know what it means to design a computer program

Attitude Towards Test-First Programming

Test-first programming is the practice by which an automated test case is written before the code is implemented. The implemented code is written to pass the test case. The design of the system emerges as the programmer repeatedly writes tests, then writes the code to make the test pass, then improves both the code and tests in short rapid iterations.

What is your opinion of test-first programming?

- I don't think it would ever work
- I think it might be a good approach on small projects
- I think it might be a good approach on projects where programmers have a lot of programming experience
- I think it might be a good approach on projects where programmers understand the domain well
- I think it might be a good approach on any project

Attitude Towards Test-Last Programming

Test-last programming is the practice by which a test case is written after the code is implemented. The design of the system is usually developed at least partially before any code is written.

What is your opinion of test-last programming?

- I don't think it would ever work
- I think it might be a good approach on small projects
- I think it might be a good approach on projects where programmers have a lot of programming experience
- I think it might be a good approach on projects where programmers understand the domain well
- I think it might be a good approach on any project

Choosing Between Test-First and Test-Last Programming

If you had a choice of writing code with a test-first or test-last approach, which would you choose?

- test-first
- test-last

Why?

Age

How old are you today?

- 18 to 22 years
- 23 to 26 years
- 27 to 35 years
- over 35 years

Gender

What is your gender?

- Male
- Female

Race

Which category best fits your race?

- White
- African or African American
- Asian
- Hispanic
- Other

Classification

How does the university currently classify you?

- Freshman
- Sophomore
- Junior
- Senior
- Graduate
- Other

Major

What is your major?

- Computer Science
- Computer Engineering
- Electrical Engineering
- Other: please specify _____

Overall GPA

What is your overall GPA?

- 3.5 – 4.0
- 3.0 – 3.5
- 2.5 – 3.0
- 2.0 – 2.5
- 1.5 – 2.0
- 1.0 – 1.5
- below 1.0

Additional Comments

Is there anything else related to this study that you would like to comment on that we have missed or that you would like to add?