

Part A

Please answer the following questions about your background.

We also ask for your name and institutional email ID only so we can ensure that the responses are from participants who have consented to the study. Your response to this survey will be anonymized for the study.

2

Your **name:** *

The name you used for correspondence with the researcher.

3

Your **institutional email address:** *

The email address you used for correspondence with the researcher.

4

Verification code: *

Please enter the verification code you received from the researcher.

5

What is your age group? *

Each option is inclusive, i.e. 18-24 includes age 18 and age 24.

- ☐ 18-24
- ☐ 25-34
- ☐ 35-44
- ☐ 45-54
- ☐ 55-64

6

What is your gender identity? *

If you prefer to self-describe please use the last option to enter your preferred term.

- ☐ Woman
- ☐ Man
- ☐ Non-binary
- ☐ Prefer not to say
- ☐ Other

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In which region do you live? *

- ☐ Africa
- ☐ Asia
- ☐ Australia
- ☐ Europe
- ☐ North America
- ☐ South America

8

What is your current occupation and domain of study/work? *

E.g. graduate student in Software Engineering, software developer in banking solutions, etc.

9

What is your programming experience? (including time spent learning programming)? *


- ☐ 0-6 months
- ☐ 6 months – 1 year
- ☐ 1-5 years
- ☐ 5-10 years
- ☐ >10 years

10

In a typical work or school week, how often did you look for software programming-related information online? *

- ☐ More than once a day
- ☐ About once a day
- ☐ Few times a week
- ☐ Rarely
- ☐ Never

11

How familiar are you with the following technologies? * 

	Never heard of it	Heard of it but never used it	Made simple use of it	Made advanced use of it
Java programming	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regular expressions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

12

When you searched online for programming information in the past, what kind of tutorial features were you looking for? Select all that apply. *

- ☐ Text content (as in bullet points or paragraphs)
- ☐ Focused code examples, even if incomplete (for example, a single code statement)
- ☐ Complete code examples, (for example, completely executable snippets)
- ☐ Code examples with no preference for focused or complete
- ☐ Tables
- ☐ Specifically no text
- ☐ Specifically no code examples
- ☐ Specifically no tables
- ☐ Other

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In Question 12, do you prefer any of these elements in a specific type of situation? Please explain which ones and please provide an example of the information you were searching for.

Part B

Please watch this video about different tutorial features available to you.

We would like to understand how the features can or can not help in completing programming tasks. First, please complete the following control questions. This step will help us ensure that your answers are valuable contributions to the research.



14

Please select the statement that best describes "annotated code examples" in the video. *

- ☐ Code examples that have special color formatting
- ☐ Code examples with keywords highlighted in yellow
- ☐ Code examples with code comments that provide information about the code
- ☐ Code examples that provide more information about the code on-demand via popups
- ☐ Code examples that have handwritten notes about what the code does

15

Is it possible to collapse the contents of a section? *

- ☐ No, it is not possible at all
- ☐ Not individually, but it is possible to collapse the contents of all sections with one button
- ☐ Yes, it is possible from only the tutorial body
- ☐ Yes, it is possible from only the table of contents
- ☐ Yes, it is possible from both the tutorial body and the table of contents

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What information in the text is in pink font color and in a different font style than the remaining text? *

- ☐ Emphasized descriptions of Java concepts
- ☐ Java class names
- ☐ Java method names
- ☐ Java flags
- ☐ Code elements including Java classes, methods, variables, and syntax

Part C

Assume that you are building a registration page for a web application in Java. You need to validate the user's input, and retrieve and update their profile with the accepted information. To do this, you need to use regular expressions, and have **only this tutorial** as reference:

With the help of only this tutorial, please complete the following tasks and answer the follow-up questions. Please **access the tutorial in full-screen mode** on a laptop or desktop using a Safari, Mozilla Firefox, or Google Chrome browser.

If the requirements of any tasks are unclear, please make assumptions about the requirements and state the assumptions you made in the follow-up question.

17

You are debating whether to use the `matches()` method in the `Pattern` class or the `matches()` method in the `Matcher` class. What is the difference between both these methods? *

18

How useful were the following tutorial features for you to complete the task in Question 17?

* 

	Because I already knew the answer, I didn't look at the tutorial	I used the tutorial, but not this feature	I used this feature, but it was not useful	I used this feature, it was moderately useful	I used this feature, it was very useful
Text content	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regular code example	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Summarized code example	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Annotated code example	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Table	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

19

Please explain your choices in Question 18. *

20

The user is asked to input their email address in the expected format: [username@domain.com](#). Use regular expressions and write the code to verify that their email address matches the expected format, and then retrieve just the username from their email address.

*

21

How useful were the following tutorial features for you to complete the task in question 20?

* 

	Because I already knew the answer, I didn't look at the tutorial	I used the tutorial, but not this feature	I used this feature, but it was not useful	I used this feature, it was moderately useful	I used this feature, it was very useful
Text content	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regular code example	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Summarized code example	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Annotated code example	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Table	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

22

Please explain your choices in question 21. *

23

The user is asked to enter their ten-digit phone number which may or may not be separated by hyphens into three parts of 3, 3, and 4 digits (no spaces are allowed). So, valid number formats include: 123-456-7890 and 123-4567890 and 1234567890.

You develop this simple regular expression as the pattern in the matches() method: `\d{3}-?\d{3}-?\d{4}`

However, when you try to compile your code, the compiler throws an error on this regular expression.

What is the issue and how can you fix this regular expression to fit the given criteria? *

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How useful were the following tutorial features for you to complete the task in question 23?

* 

	Because I already knew the answer, I didn't look at the tutorial	I used the tutorial, but not this feature	I used this feature, but it was not useful	I used this feature, it was moderately useful	I used this feature, it was very useful
Text content	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Regular code example	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Summarized code example	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Annotated code example	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Table	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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Please explain your choices in question 24. *

Part D

Please let us know your general thoughts on the tutorial and its features.

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Did you use the table of contents? If yes, please explain how you used it. If no, please explain why you did not use it.

27

Did you collapse and expand sections, tables, or code examples? If yes, please explain how these additional tutorial features were useful. If no, please explain why you did not use them.

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Were there any other tutorial features you wish the tutorial had?

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Please share any additional comments that you have about your experience using the tutorial.

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