

Q0

What is your Prolific ID?

Q1

We are conducting an academic research experiment about teaching and learning computational thinking (CT). We need you to complete a series of activities designed to help us study a variety of ways to learn CT efficiently.

Please complete the activity in each of the 10 steps that follow in order. Due to the constraints of the experimental design, we cannot approve the work if items are completed out of order, or if the incorrect Username is input into any form in the activities linked below. Note that some activities (4, 6, 8) are labeled: **Timed Activity**. Please attempt to complete these activities without interruption.

We track completion of each step independently, but request completion confirmation via a button for each activity here.

Activity 1

Follow the directions in the [Virtual Machine Setup Instructions](#). If the file download in instruction 2 is not complete by the time you have reached instruction 4, you can proceed here through study activities 2-5. However, the remainder of the Virtual Machine Setup Instructions must be followed before proceeding to study activity 6.

☐ Activity 1 underway or completed

Q2Activity 2

Visit <https://uat.cu-sage.org/#/reg> and create a unique new account. Per Prolific policy, do not enter any personally identifiable information, but make sure to record the Username entered because you will need to enter it throughout the experiment. The Username is not required to be an email address.

Once you have created an account, please close the uat.cu-sage.org browser window.
You will need to remember your Username and password when using this site via the virtual machine in study activity 6.

Please enter your SAGE Username:

☐ Activity 2 completed

Q3

Activity 3

Complete this [background survey](#), and then review this [introduction](#) to the learning system and to the CT concept of Loops.

☐ Activity 3 completed

Q4

Activity 4 | Timed Activity

Complete the [pretest](#).

☐ Activity 4 completed

Q5

Activity 5

Provide [feedback on the pretest](#).

☐ Activity 5 completed

Q6

Please confirm you have followed the [Virtual Machine Setup Instructions](#) from study activity 1 through completion before proceeding with study activity 6.

☐ Study activity 1 fully complete

Activity 6 | Timed Activity

Using the browser launched in the virtual machine, login into <https://uat.cu-sage.org/> using the Username created in study activity 1. Navigate to the assigned Quest, and attempt to complete seven puzzles in the learning system in order (Warm Up, then 1-6). Please do not start the puzzles without first reviewing the instructions labeled ***Start Here! | Quest Instructions for All Puzzles***, as those are designed to accompany the puzzles. When you complete a puzzle or the timer expires, navigate to the next puzzle. Confirm activity 6 completion after you have attempted to solve all seven puzzles in order. **Note: we must reject submissions unassociated with evidence of interaction with all seven puzzles.**

☐ Activity 6 completed

Q7

Activity 7

Provide [puzzle feedback](#).

☐ Activity 7 completed

Q8

Activity 8 | Timed Activity

Complete the [posttest](#).

☐ Activity 8 completed

Q9

Activity 9

Provide [feedback on the posttest](#).

☐ Activity 9 completed

Q10

Activity 10 | Timed Activity

Provide [feedback on the experiment](#) and mark activity 10 completed before advancing to the next page to conclude the study.

☐ Activity 10 completed

Q11

You have reached the conclusion of the study. Upon confirming your Prolific ID and SAGE Username, you will be redirected to Prolific. We are grateful for your time and participation.

Please enter your Prolific ID:

Please enter your SAGE Username (used to login to <https://uat.cu-sage.org>):

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