Block 1

Computer Science Technical Assessment

There are 17 questions in this test and it will take about 25 minutes to finish the test. Please read the questions carefully before answering.

If you don't know the answer, please skip the question.

Click on Next when you are ready.

W	/hat is your participant ID?		

Default Question Block

- 1. In coding, what is the function of a variable?
- O Repeating code
- O Checking if one value is equal to another
- O Storing a value
- O Communicating between two pieces of code
- O Displaying a message
- 2. In which of the following pieces of code will the variable **sum** be equal to 10, after the code has finished running?

```
set sum to 0
change sum by 1
change sum by 9
set sum to sum + 1
set sum v to 0
set sum to sum + 1
set sum to sum + 1
set sum to sum + 1
set sum v to 0
set sum to sum + 9
set sum v to 10
change sum ▼ by •1
set sum v to sum + 1
set sum v to 5
set sum to sum + 9
change sum by -3
```

```
when clicked

set grade1 to 90

set grade2 to 95

set sum to grade1 + grade2

set average to sum / 2

if average > 90

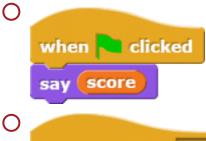
say You*got*an*A! for 2 secs
else

say You*did*not*get*an*A. for 2 secs

say Good*job!
```

3. What is the numeric value of average after the code has finished running?

- 4. What is the output of the code shown in question number three?
- 5. In what situation would you need to use broadcasting while coding?
- O To transmit information by radio or television
- O Communicating between two different pieces of code
- O To display a message to the user
- O Playing a sound
- Showing an animation
- 6. Which of following is an example of using broadcasting in a game?



when I receive Message from Character One ▼
move 10 steps

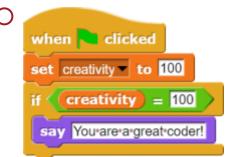


when I am clicked when I am cl

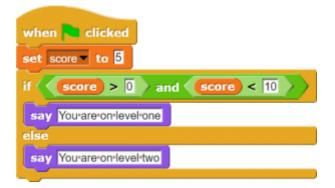
```
when score = 5
switch to costume Level Two
```

7. Select which code will say "You are a great coder!"

```
when | clicked
set motivation to 100
    creativity = 100
 say You are a great coder!
when clicked
set creativity to 100
change creativity by 10
    creativity = 100
 say You are a great coder!
when clicked
set creativity to 100
    creativity > 100
 say You are a great coder!
when 🔁 clicked
set creativity to 100
    creativity < 100
 say You are a great coder!
```



- 8. In an if/else block of code, when does the code under the "else" run?
- When the **if** statement condition is true
- O When the **if** statement's condition is false
- After the code under the **if** runs
- The code under the **else** never runs
- O The code under the **else** always runs



- 9. What will the above code say?
- 10. Which of the following code uses user input?
- when space key pressed
 move 10 steps

```
if level = 1

say You are on level one

when I receive broadcast turn 90 degrees

when score = 0

say Score is zero!

forever

go to x: 0 y: 0
```

- 11. Which of these is an example of code output?
- O Checking if a key is pressed
- O Playing a sound
- O Broadcasting
- O Storing a value
- O Creating a variable
- 12. Which code has an example of a loop?

```
when clicked

if key space pressed?

move 50 steps

when clicked

turn 360 degrees

move 50 steps
```

```
when clicked

wait until key space pressed?

move 50 steps

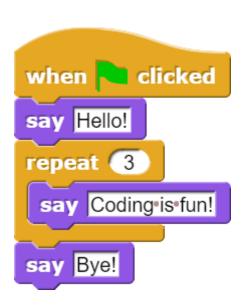
when space key pressed

repeat 5

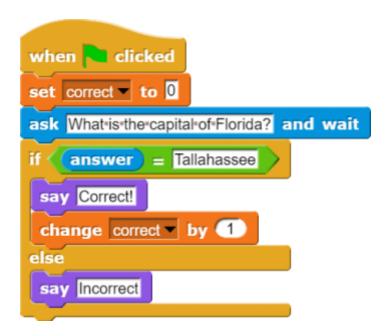
move 10 steps

when space key pressed

move 50 steps
```



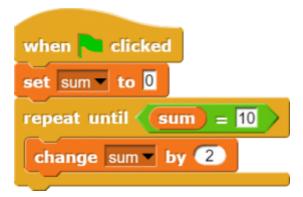
13. What will the above code say? If multiple things are said, list them in the order they would be said.



14. What is the numeric value of **correct** after the above code finishes, if the user enters "Jacksonville"?

15. What will the code above say if the user enters "Tallahassee"?

- 16. Consider the code in the question above. What would be the best use of a loop in a quiz game?
- O Loop until the answer entered is correct
- O Loop to say correct
- O Loop to change the score
- O Loop to display the question
- O Loop to set the score



17. How many times is sum changed by 2 in the above code?

Block 2

Excellent! You are done with the Computer Science Technical Assessment!

Please click **next** to submit your responses and leave the assessment.



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