## CTT (Lua Version)

This quiz consists of 29 questions, all questions have 4 answer options from which only one is correct. You will have 25 minutes and you do not have to finish.

This is used only for our research and for your own self-assessment, and is not associated with any class or work related to your school. Just do your best!

The problems will involve working with the three characters below. In some problems, Pacman chases the ghost, and in others the artist draws a line while he is moving.

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* Indicates required question

1a. Please enter your school email address (same one used for previous survey). *

Your answer

1b. What is your computer number? *

Your answer

The cast

'Pac-Man'


Ghost


Artist

Example: For Pac-Man to eat the ghost, the correct answer is B: right, right, up (it works like a video game controller)


Example: this one uses Lua code instead. Please read carefully so that you understand. The answer is C .


Example: The artist draws a line to the specification. Please read carefully so that you understand. The answer is $A$.


OK, now it is your turn to answer some questions!
2. Select the correct answer.

$\bigcirc$
A$B$
O
C
$\bigcirc$
D

## 3. Select the correct answer.


$\bigcirc$
A

0
$B$

0
C
0
D
4. Select the correct answer.

$\bigcirc$
$A$
$\bigcirc$
$B$
0
C
O
D

5 Select the correct answer.

| Which instructions should the artist follow to draw the square? Each of the sides of the square measures 100 pixels. | Option A <br> artist.forward (100) <br> artist.turnRight() <br> artist.forward(100) <br> artist.turnueft () <br> artist.forward(100) <br> artist.turnRight() <br> artist.forward(100) | Option B <br> artist.forward(25) <br> artist.turnRight() <br> artist.forward(25) <br> artist.turnLeft() <br> artist.forward(25) <br> artist.turnRight() <br> artist.forward(25) |
| :---: | :---: | :---: |
|  | Option C <br> artist.forward(50) <br> artist.turnRight() <br> artist.forward(50) <br> artist.turnRight() <br> artist.forward(50) <br> artist.turnRight() <br> artist.forward(50) | Option D <br> artist.forward(100) <br> artist.turnRight() <br> artist.forward(100) <br> artist.turnRight() <br> artist.forward(100) <br> artist.turnRight() <br> artist.forward(100) |$A$$B$CD

6. Select the correct answer.

$\bigcirc$
$A$
$\bigcirc$
B
$\bigcirc$
C
$\bigcirc$ $\qquad$

## 7. Select the correct answer.


$\bigcirc$
A

O
$B$
0
CD

## 8. Select the correct answer.

| The instructions should make the artist draw the following rectangle once (50 pixels wide and 100 puxels high). In which step of the instructions is there a mistake? |  |
| :---: | :---: |
|  |  |$A$$B$



CD

## 9. Select the correct answer.


$A$B

0
C
$\bigcirc D$
10. Select the correct answer.

$A$
○
B


C
O
D

## 11. Select the correct answer.



0
$A$
$\bigcirc$
$B$
O
$C$
O
D
12. Select the correct answer.

$\bigcirc$
$A$
$\bigcirc$
$B$
0
C
0
D

## 13. Select the correct answer.

| Which instructions should the artist follow to draw the ladder that reaches the flower? There are 30 pixels between each rung. | ```Option A while not artist.atFlower() do for i = 1, 4 do artist.forward(30) artist.turnRight() end artist.forward(30) end``` | ```Option B while not artist.atFlower() do for i = 1, 4 do artist.forward(120) artist.turnRight() end artist.forward(30) end``` |
| :---: | :---: | :---: |
|  | ```Option C while not artist.atFlower() do for i = 1, 4 do artist.forward(30) artist.turnRight() end artist.forward(210) end``` | ```Option D while not artist.atFlower() do for i = 1, 7 do artist.forward(30) artist.turnRight() end artist.forward(30) end``` |

$A$$B$CD
14. Select the correct answer.


0
A
$\bigcirc$
$\bigcirc \mathrm{C}$
$\bigcirc D$
B
$C$

## 15. Select the correct answer.



## 16. Select the correct answer.


$\bigcirc$
A
$\bigcirc$
B
○
C
$\bigcirc$
D
17. Select the correct answer.

$\bigcirc A$
○ $B$
$\bigcirc \mathrm{C}$
○ $D$
18. Select the correct answer.


0
$A$$B$
○
C
$\bigcirc D$
19. Select the correct answer.

$A$B
0
C

○ $D$

## 20. Select the correct answer.



## 21. Select the correct answer.


$\bigcirc$
A
○
BC
$\bigcirc D$

In the next four questions, a strawberry appears in some squares. The number on the bottom of the image shows how many strawberries are in the square.

22. Select the correct answer.

$A$

$B$


C
0
D

## 23. Select the correct answer.



## 24. Select the correct answer.



A

$B$CD

## 25 . Select the correct answer.


$\bigcirc$
$A$$B$
$\bigcirc$
C
O
D

## 26. Select the correct answer.

$A$BCD

## 27. Select the correct answer.

| The following set of instructions is called 'my fumetion', and draws one triangle of 50 pixels each side: ```function my_function() for x=1, 3 do artist.forward(50) artist.turnLeft(120) end end``` | Option A | Option B |
| :---: | :---: | :---: |
| The instructions below should make the artist draw the following design. Each side of each triangle measures 50 puxels. What is missing in the instructions? ```for }x=1, ??? d my_function() artist.forward(50) end``` | Option C | Option D |$A$$B$$C$D

## 28. Select the correct answer.


29. Select the correct answer.


I thought this test was....


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