

Block 1

Computer Science Technical Assessment

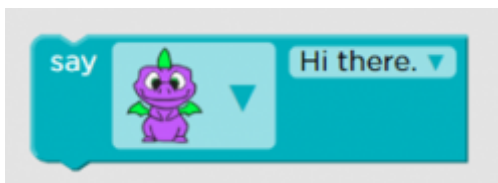
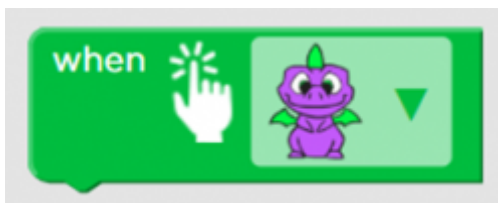
There are 13 questions in this test and it will take about 20 minutes to finish the test. Please read the questions carefully before answering.
If you don't know the answer, please skip the question.

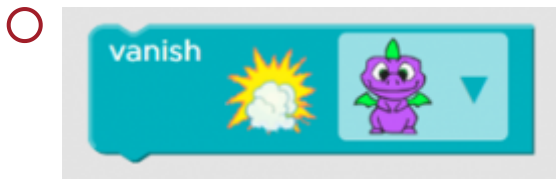
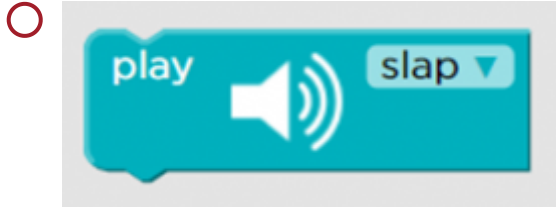
Click on Next when you are ready.

What is your participant ID?

Default Question Block

1. Which of the following code requires user **input**?

☐☐

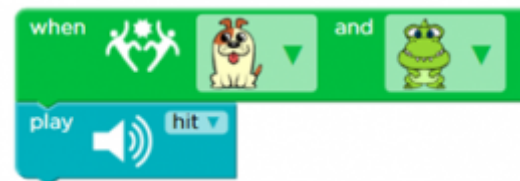


2. Which of these is an example of code **output**?

- ☐ Moving an animated character
- ☐ Playing a sound
- ☐ Changing the background
- ☐ Displaying a message
- ☐ All of the above

3. Which code has an example of a loop?





4. What will the above code "say"? If multiple things are said, list them in the order they

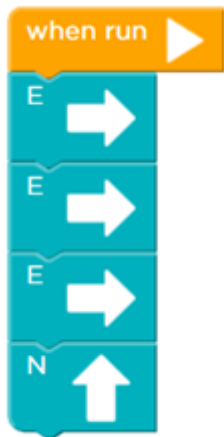
would be said.



5. Which instructions will take the red bird to the pig?







6. What will the numeric value of **score** be after the code is finished running?

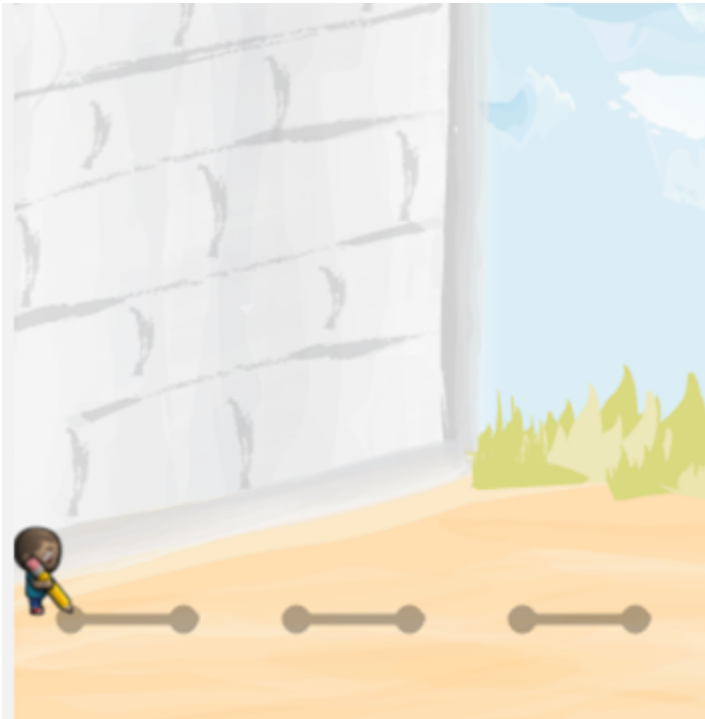


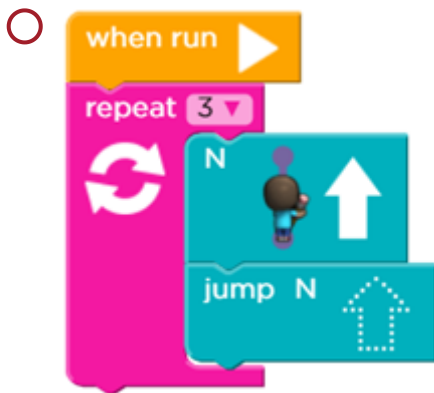
7. When will the sound be played in the code below?



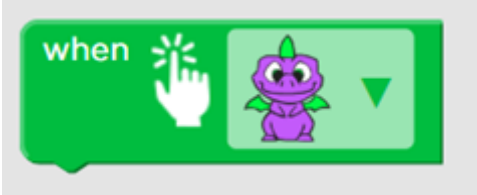
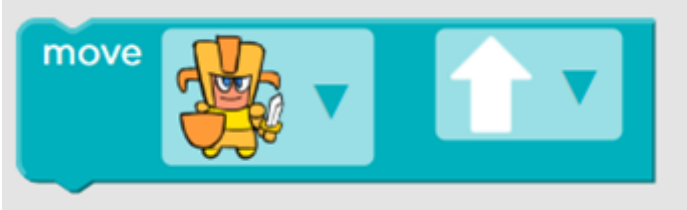


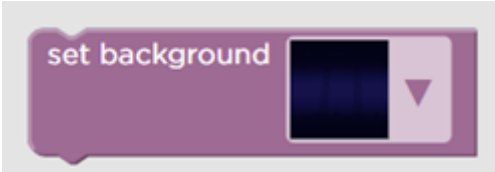
- ☐ When either the dragon or the knight hit something
- ☐ When the dragon hits something
- ☐ When the knight hits something
- ☐ When the dragon and the knight hit each other
- ☐ When the dragon and the knight hit the edge

8. Which instructions will have the artist fill in only the lines?

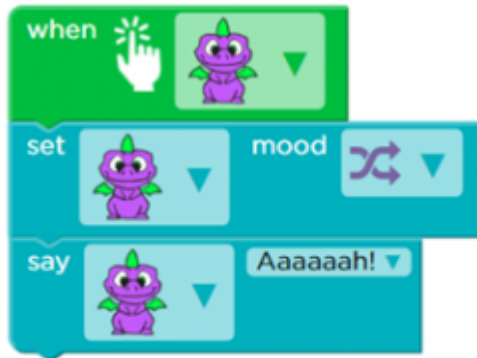
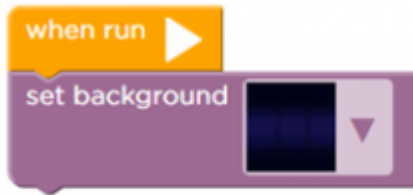




9. Which of the following blocks represents a condition?

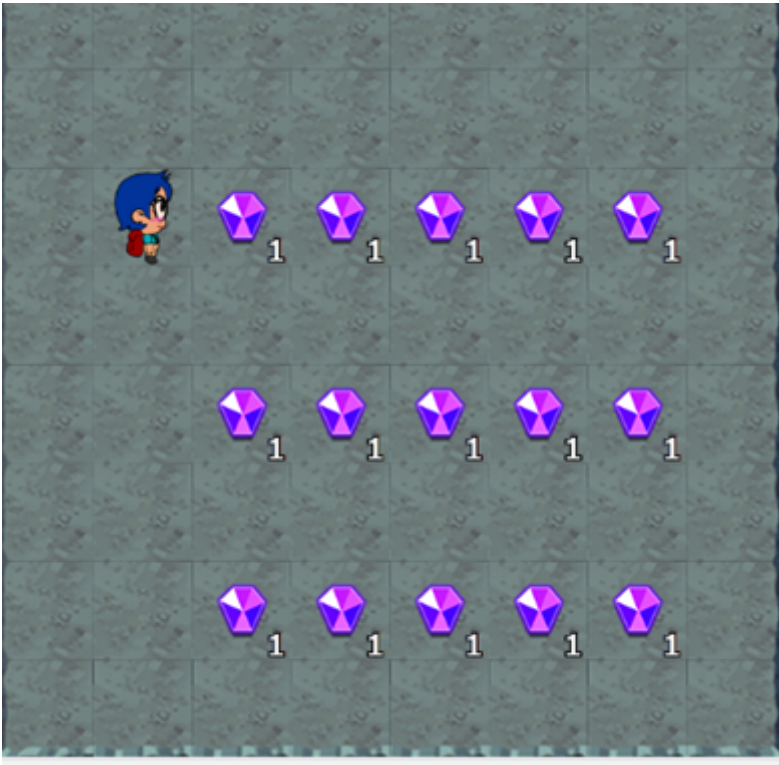
- ☐ A green Scratch block labeled "when" with a hand cursor icon and a purple alien character icon, followed by a dropdown arrow.
- ☐ A blue Scratch block labeled "move" with a yellow robot icon, a dropdown arrow, and an upward arrow icon, followed by a dropdown arrow.
- ☐ A pink Scratch block labeled "repeat" with a circular arrow icon, the number "3", and a dropdown arrow.
- ☐ A blue Scratch block labeled "say" with a purple alien character icon, a dropdown arrow, and the text "Hi there." followed by a dropdown arrow.
- ☐ A purple Scratch block labeled "set background" with a dark blue background image and a dropdown arrow.

10. Which block in the code below contains a variable?



- ☐ "Set background" block
- ☐ "Move" block
- ☐ "When clicked" block
- ☐ "Score" block
- ☐ "Say" block

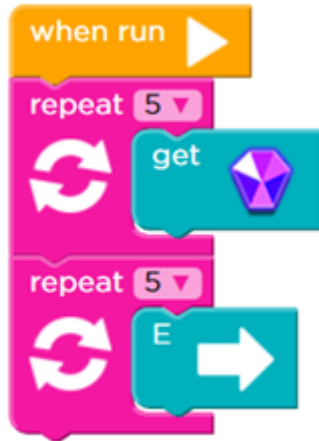
11. Which code will help the treasure hunter collect all the gems in the first row? The treasure hunter can only collect a gem when standing on it.




☐ when run ►
repeat 5 ▼
 get 
 E ►

☐ when run ►
repeat 5 ▼
 E ►

☐ when run ►
repeat 5 ▼
 E ►
repeat 5 ▼
 get 



12. What **word** will the bee spell after the code below is run?

Z	N	W	U	O	R	W	T
F	S	U	V	M	T	J	E
B		D	E	U	X	V	K
Z	M	Y	B	X	Z	W	Z
B	W	C	U	G	M	E	X
X	O	K	U	X	P	E	X
P	W	B	H	E	N	R	Y
A	O	P	R	O	N	G	K



13. For the robot to collect the three piles of scrap metal, what numbers need to go in the blanks in the code below?



- ☐ 3, 2, 2
- ☐ 1, 3, 2
- ☐ 2, 2, 2
- ☐ 3, 3, 3
- ☐ 1, 2, 3

Desc_End

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

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



Powered by Qualtrics