

username

What is your SAGE username (ex. s1234_50)?

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Question 1

The image shows a Scratch script editor with a sequence of 6 blocks. Block 1 is an orange 'when green flag clicked' block. Blocks 2 through 6 are purple 'think' blocks with the following text: 'Time to do my homework', 'Take out my homework', 'Complete the worksheet', 'Get my book bag', and 'Read the instructions'.

- 1 when  clicked
- 2 think Time to do my homework
- 3 think Take out my homework
- 4 think Complete the worksheet
- 5 think Get my book bag
- 6 think Read the instructions

What should be the correct sequence of the above blocks after the green flag is clicked?

- ☐ 1,2,3,4,5,6
- ☐ 1,6,5,4,3,2
- ☐ 1,2, 5,3,6, 4
- ☐ 1,2,3,4,6,5

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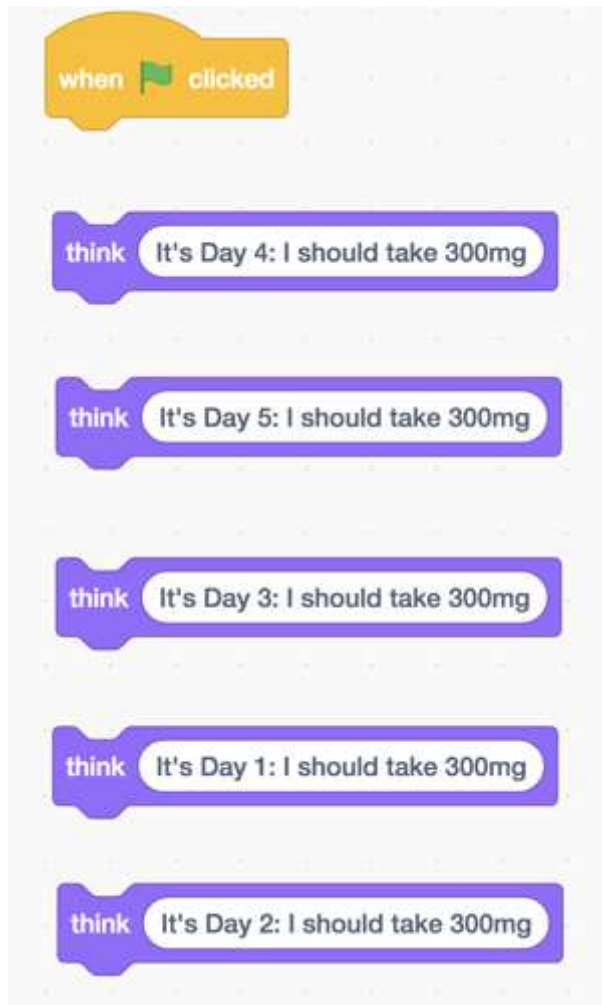
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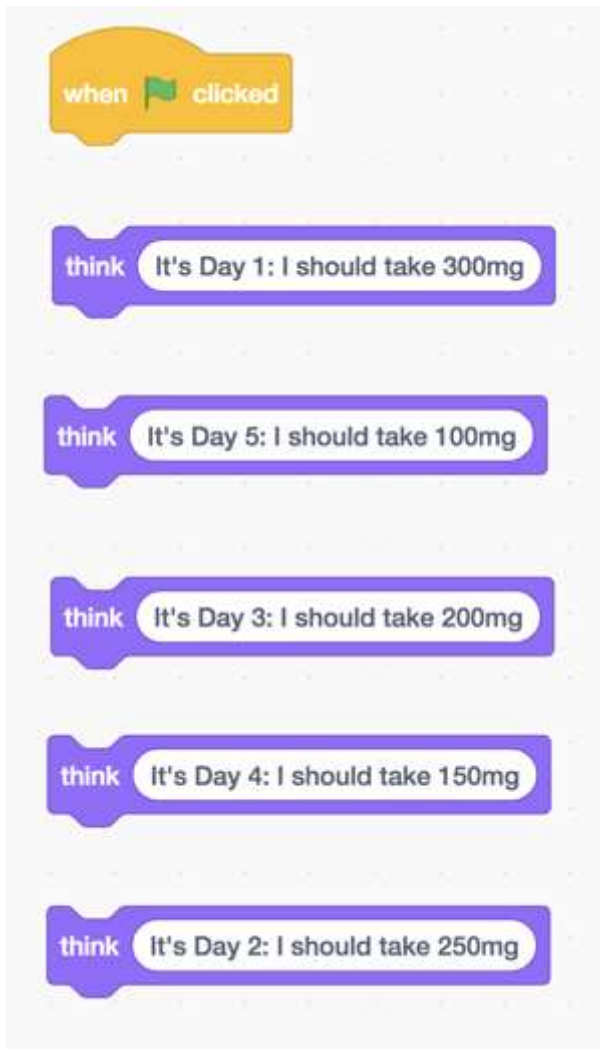
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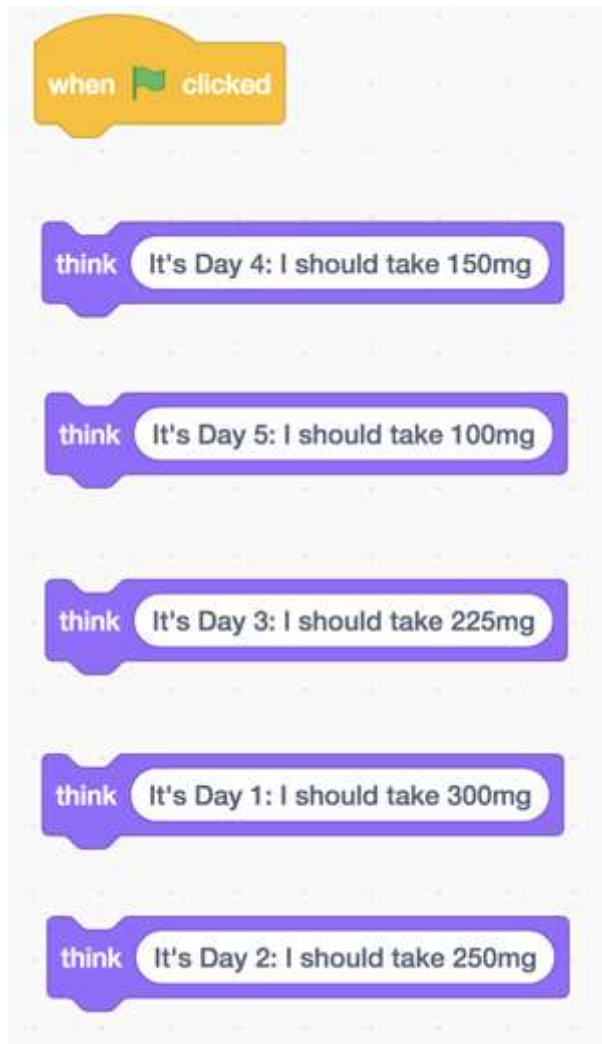
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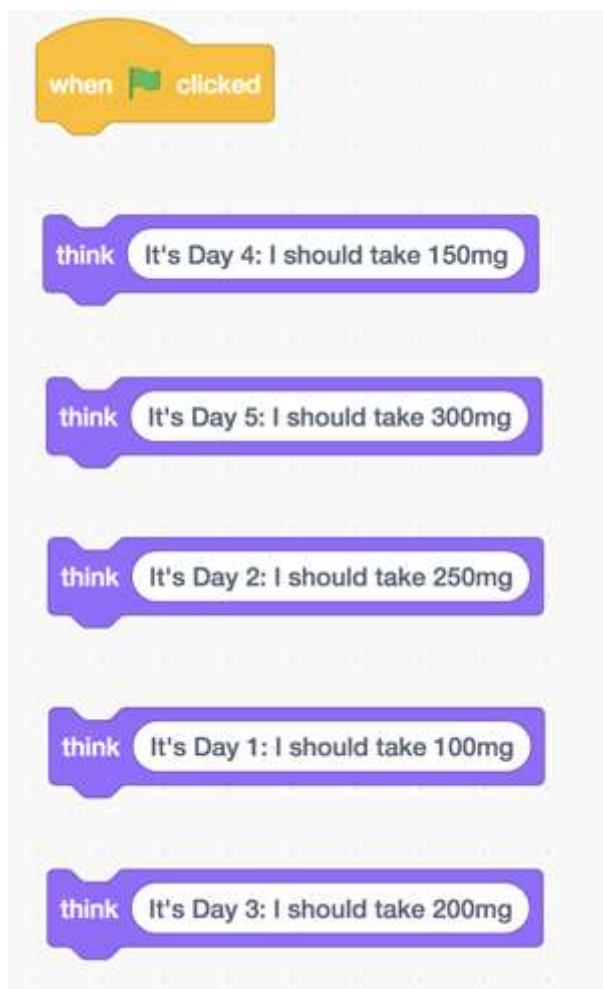
Question 2

Mr. Wilson has allergies. When allergy season arrives, his doctor recommends that he take 300 mg of his medication the first day, and decrease the dosage by 50mg each day for 5 days. Which of the following option contains all the correct puzzle pieces for the narration above?









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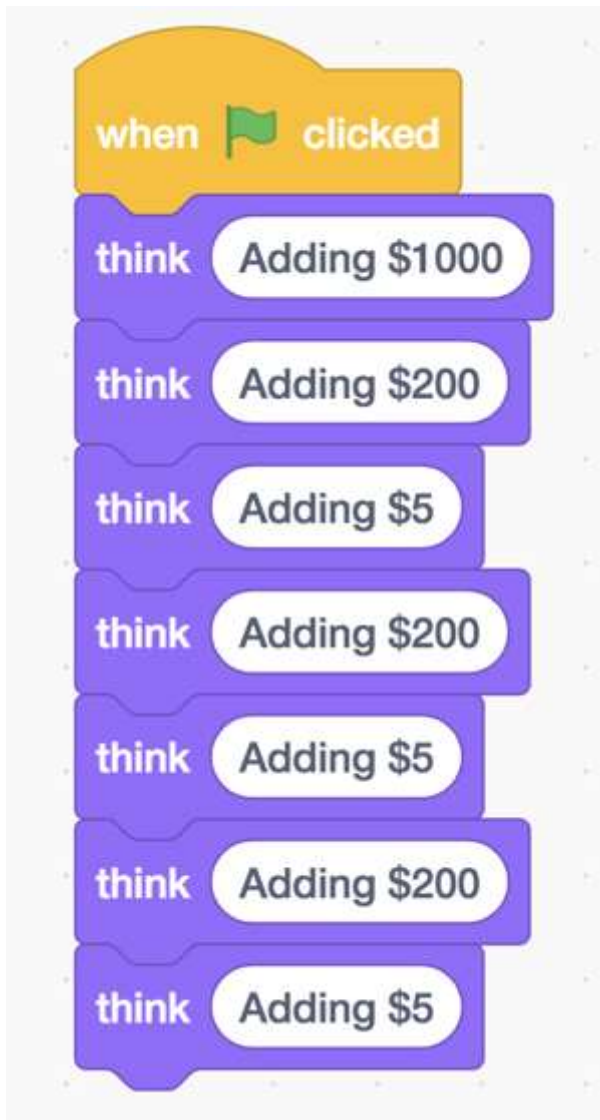
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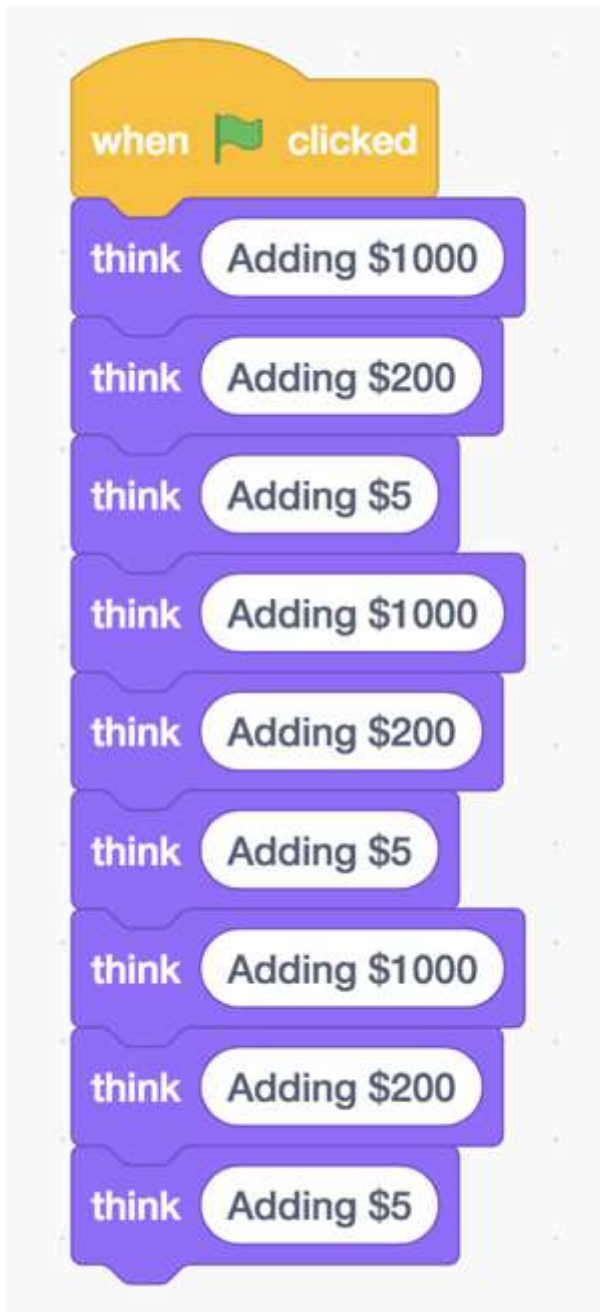
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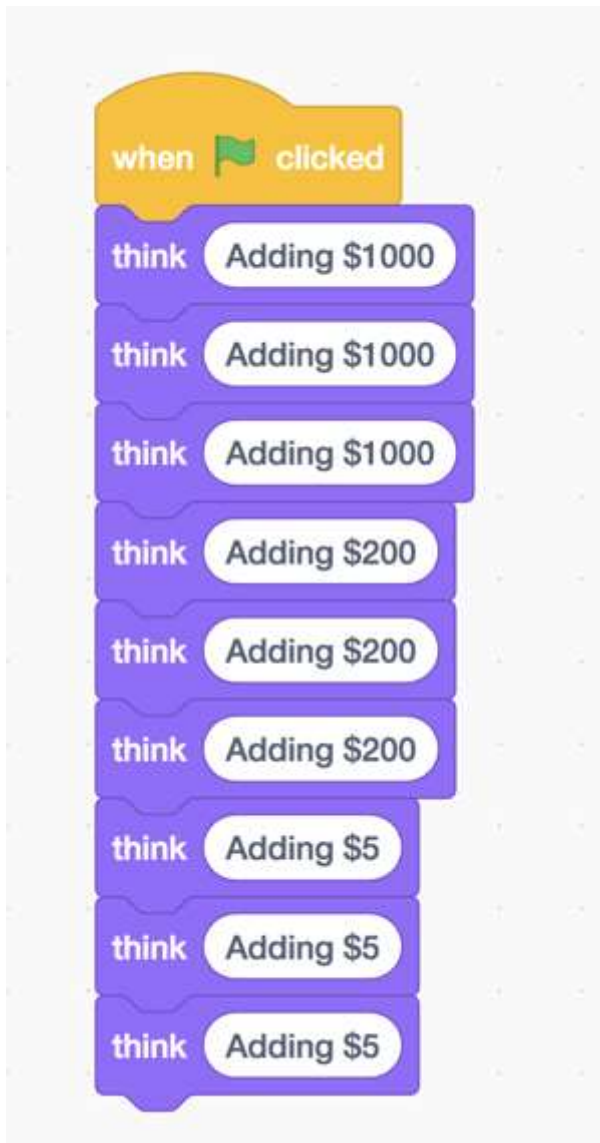
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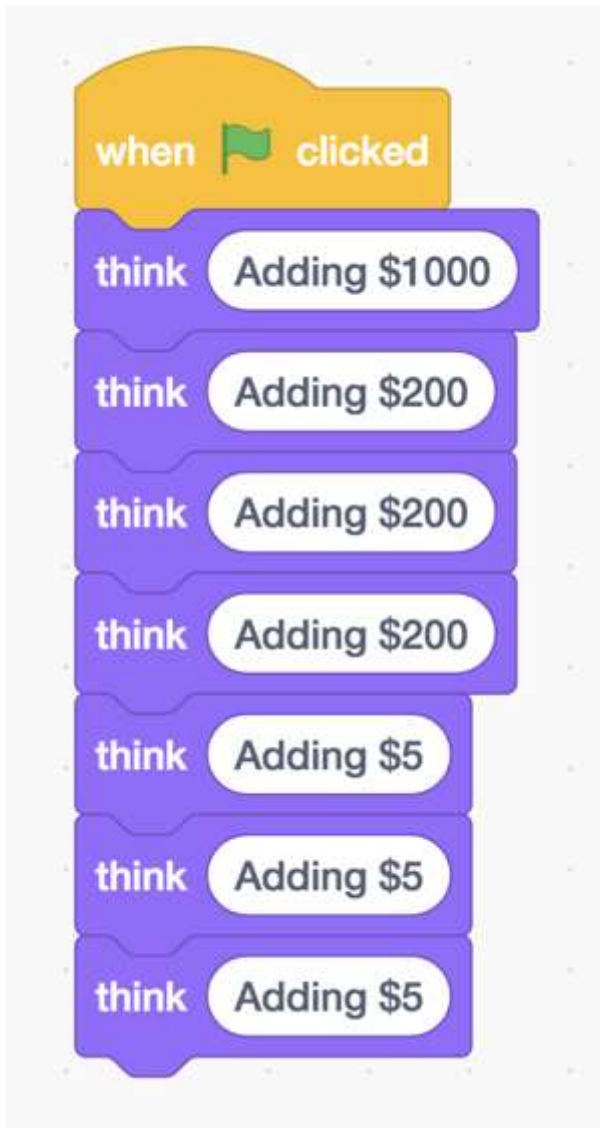
Question 3

3. You give your child \$1000 to start a college book fund. You add \$200 to the fund each month, and ask her to add \$5 each month. What should the sequence look like after 3 months?









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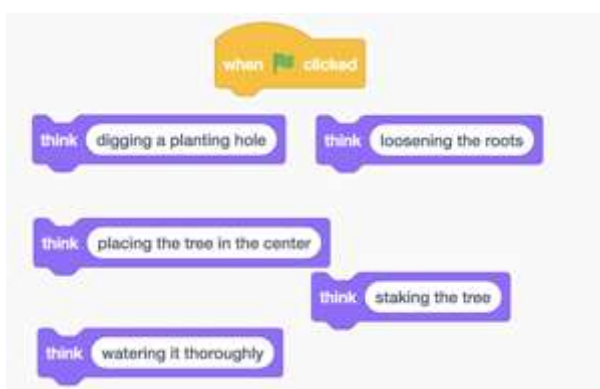
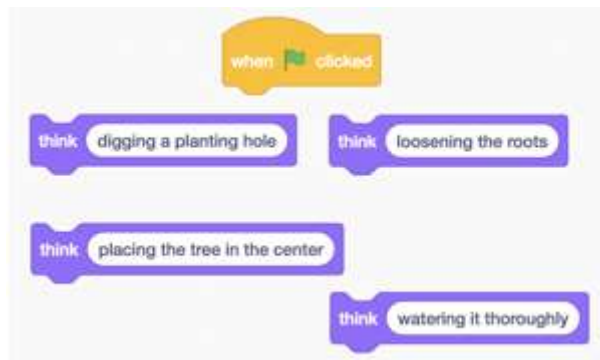
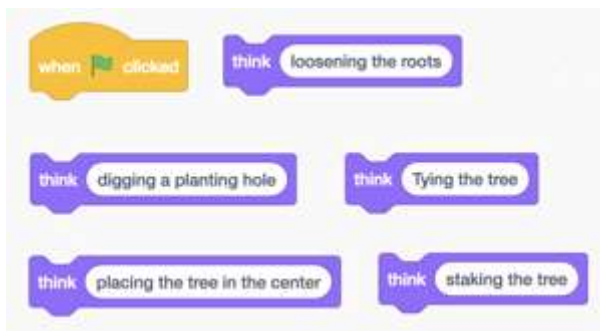
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Question 4

4. In order to do something good for the environment, you have decided to plant a tree. The steps are as follow. You need to dig a planting hole, loosen the roots, place the tree in the center, stake the tree, and water it thoroughly. Which of the following option contains all necessary blocks for the above sequence?



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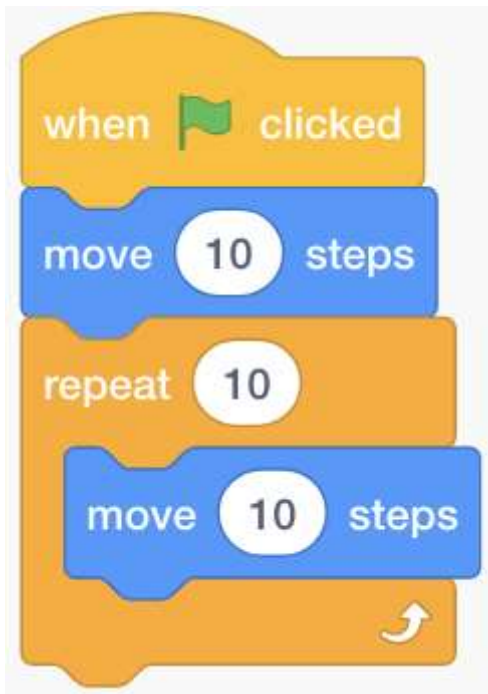
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Question 5



How many steps would be moved after the green flag is clicked?

- ☐ 100
- ☐ 30
- ☐ 20
- ☐ 110

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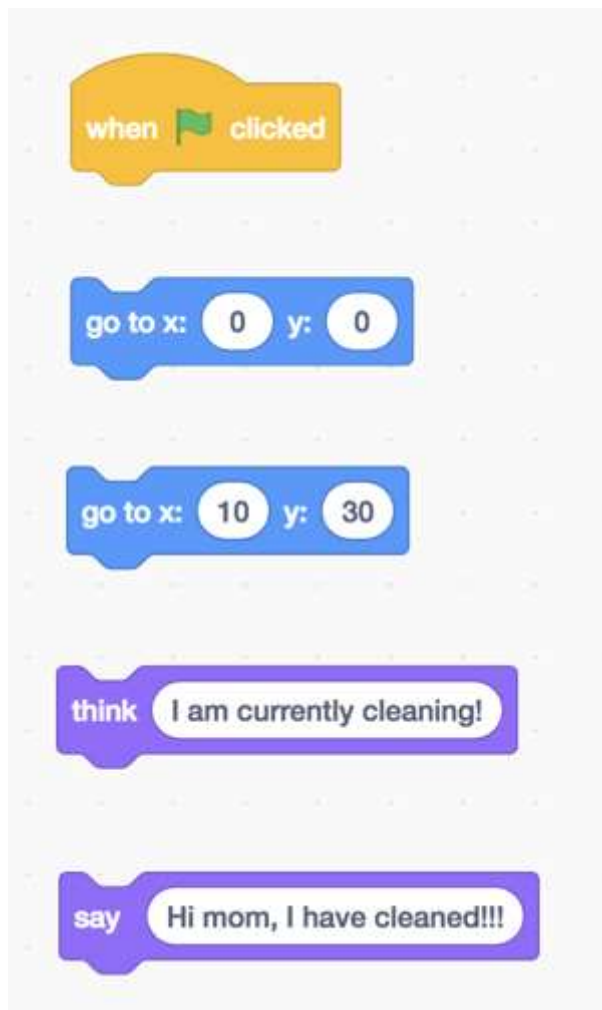
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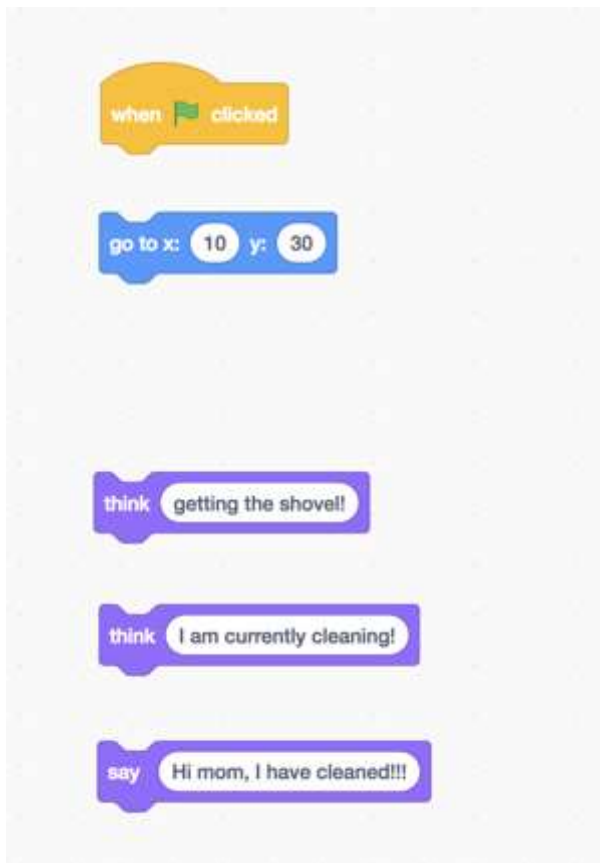
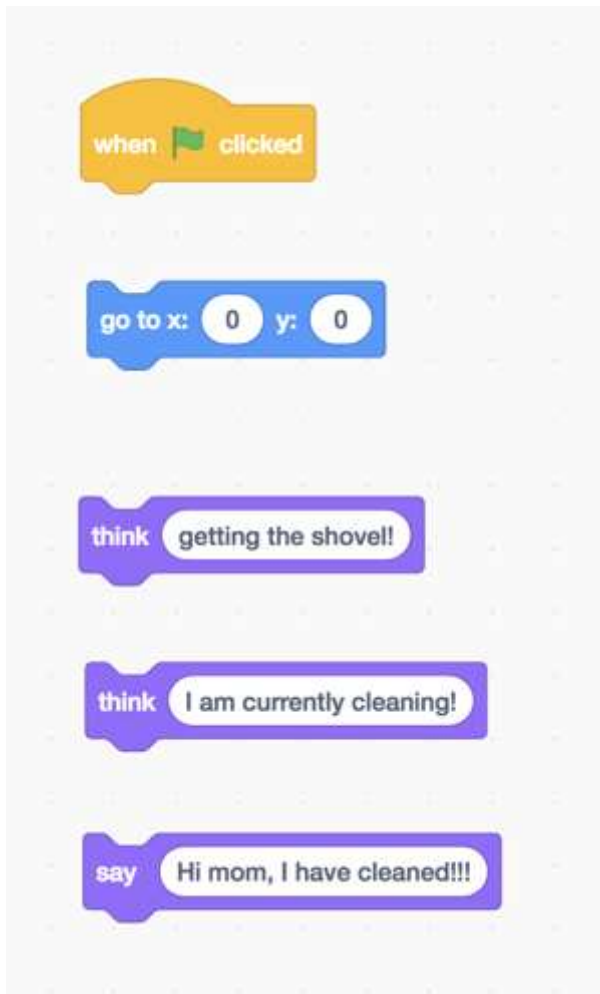
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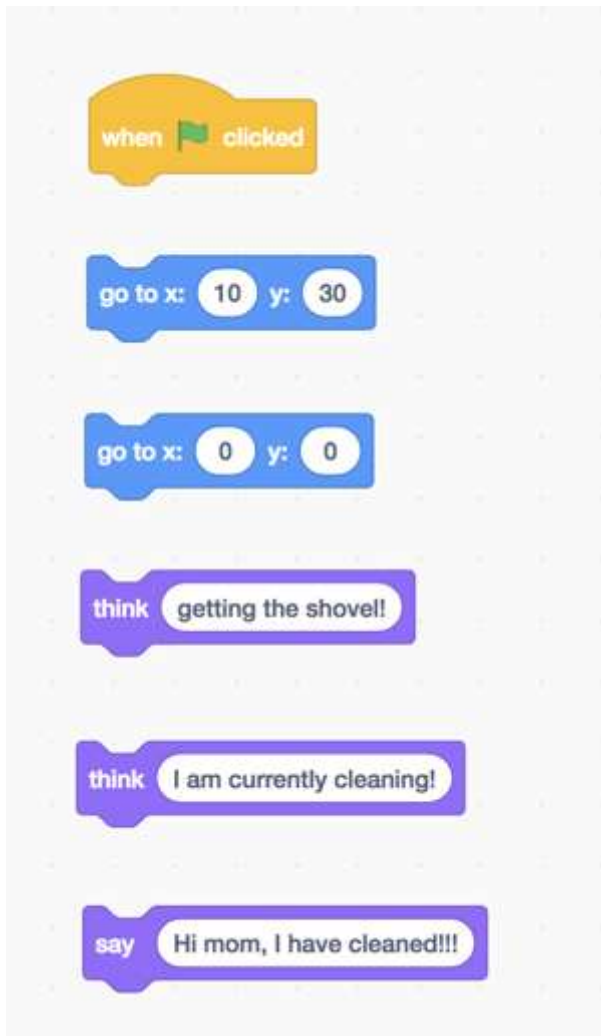
Question 6

6. It is snowing outside, in order to clean the snow, you first need to move to (x=10, y=30) to get the shovel and then come back to the original place (x=0, y=0) to clean.

After cleaning, you are very proud, so you tell your mom that you cleaned the front porch!
Which of the following puzzle pieces would be the best option for the narration above?







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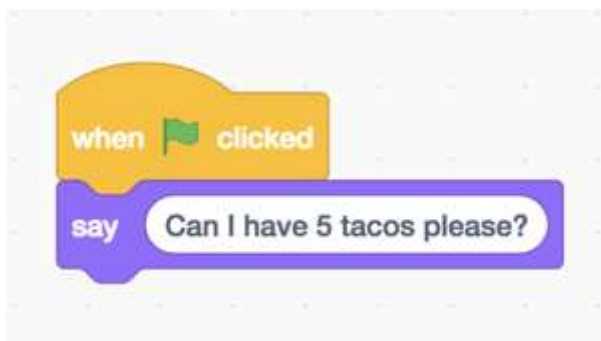
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Question 7

7. You are ordering taco in the restaurant. For some reason, you can only get one taco at a time. However, you want 5 tacos in total. Thus, if you want 5 tacos, which of the following sequence would you choose?





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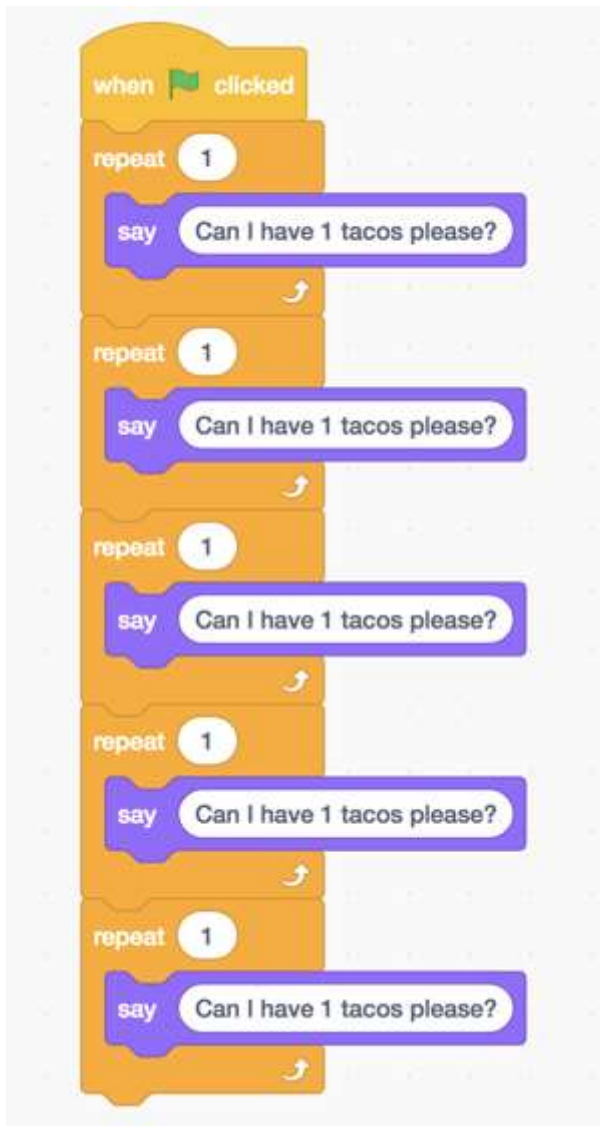
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Question 8

8. Lets assume that we are still in the same restaurant ordering tacos. Which of the following puzzle solution is not only correct but also the most efficient (takes the least number of blocks)?





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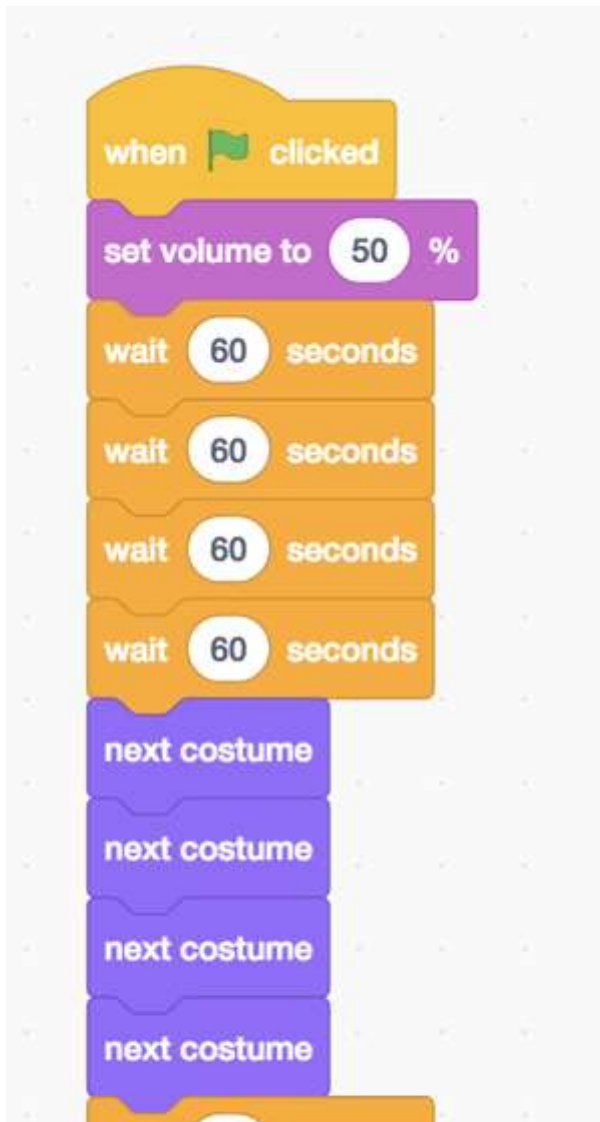
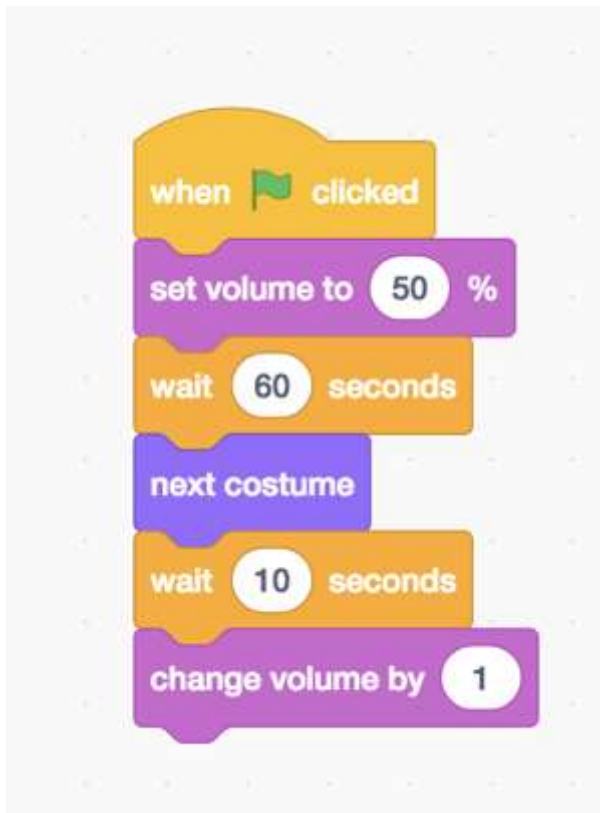
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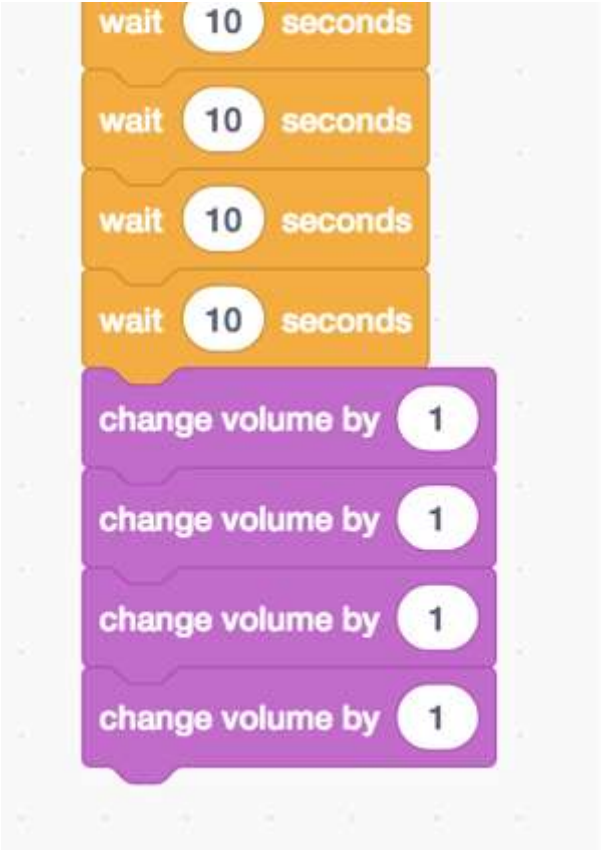
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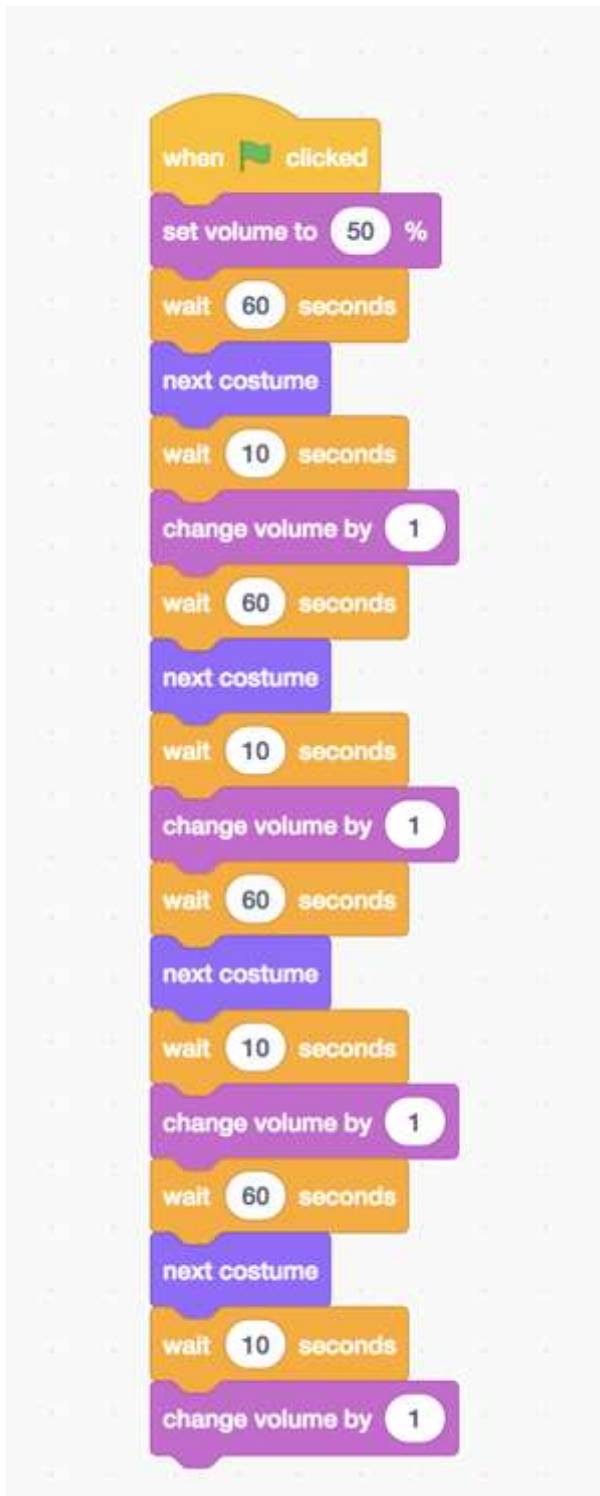
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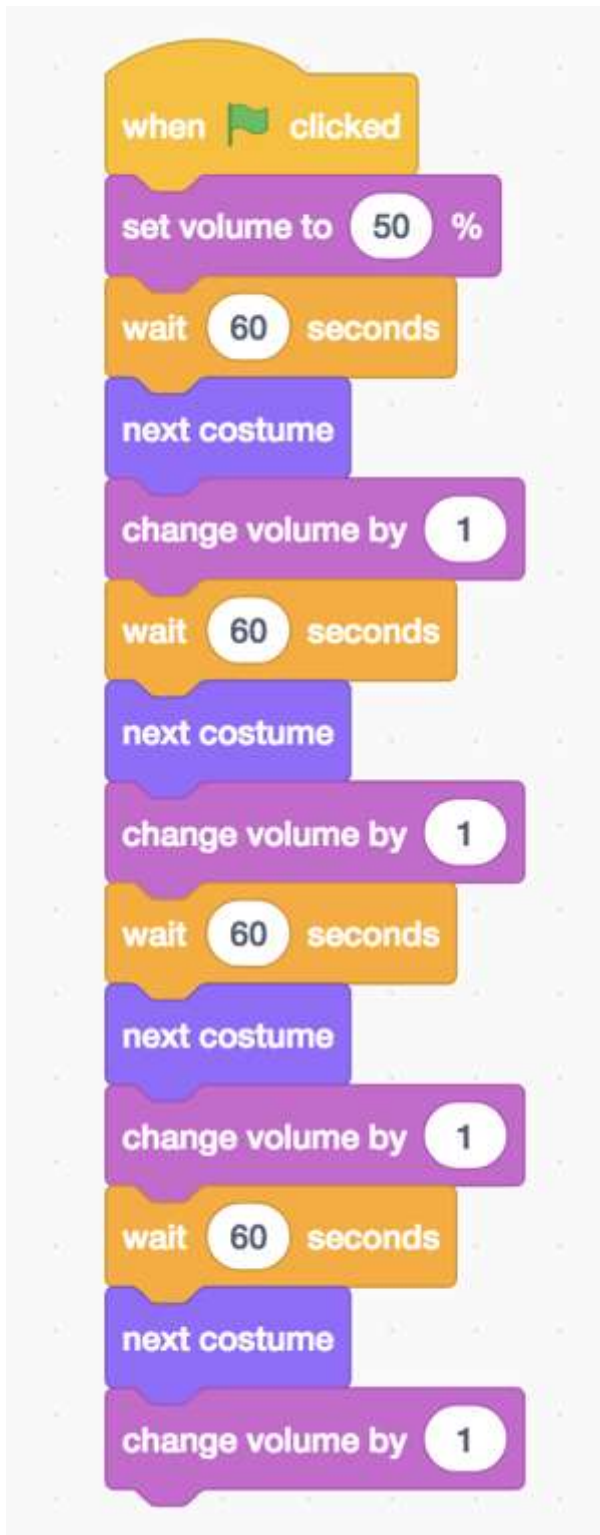
Question 9

9. You are a crew on set. For this particular production, the actor Alice changes costume every 60 seconds. And after she changes costume, you wait for 10 second and increase the volume of music by 1%. The duration of the show is 4 mins. Which of the following puzzle solutions is correct based on the narration above?









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Question 10

10. Based on question 9, do you think you can come up with a more efficient way of constructing the puzzle? If yes, please describe how you would improve it. If no, please explain why can't the solution be improved.

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