I. Cut and Paste the algorithm in right order, predict the outcome and answer the following questions.

Algorithm A

Steps	Instructions
6	Stop program by clicking Stop button
4	Play sound F Sax until done
2	Play sound C Sax until done
3	Play sound D Sax until done
5	Repeat steps 2 to 4 forever
1	Start program when any key is pressed

Algorithm B

Steps	Instructions
2	Set volume to 50%
5	Change volume by 10
6	Repeat steps 3 to 5 five more times
4	Play sound F Elec Piano until done
1	Start program when sprite is clicked
7	Stop program
3	Play sound E Elec Piano until done

Paste it over here.

a. Which algorithm uses the forever loop?

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b. Which algorithm uses the repeat loop?

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c. Which musical instrument is used in each algorithm?

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d. How many times is the High Tom sound played in Algorithm C?

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e. What is the lowest volume in Algorithm D?

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f. Predict and choose the right outcome for Algorithm B.

a. The saxophone will continue to play these sounds forever. The program will only stop when the stop button is clicked.

b. When the keyboard sprite is clicked, it plays the E sound and F sound at a volume of 50%. This continues until the E and F sounds are played six times.

II. Below the algorithm is the given, rewrite the algorithm by making use of proper repeat block where ever required. and repeat the song until the space key pressed. Compare the given algorithm with the algorithm which you recreated and explain the differences between both.

Step	Instruction
1	Start program when Green Flag is clicked
2	Play C
3	Play C
4	Play G
5	Play G
6	Play A
7	Play A
8	Play A
9	Play A
10	Play G
11	Repeat steps 2 to 10 forever
12	Stop program

Step	Instruction
1	Start program when Green Flag is clicked
2	Play C
3	Repeat step 2 one more time
4	Play G
5	Repeat step 4 one more time
6	Play A
7	Repeat step 6 three more times
8	Play G
9	Repeat steps 2 to 8 until space key is pressed
10	Stop program

Steps	Instruction

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Name: _____
Date: _____

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