98-380 Q&As

Introduction to Programming Using Block-Based Languages (Touch Develop)

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QUESTION 1

This question requires that you evaluate the underlined text to determine if it is correct.

Sunny, Rainy, and Cloudy control the weather of a magic kingdom.

Citizens of the kingdom are not happy with their service because the weather changes too rapidly. To make the citizens happy, Sunny, Rainy, and Cloudy agree that only one of them will control the weather at a time. To determine who

controls the weather next, they design a game to solve the problem.

Sunny, Rainy, and Cloudy play the game every few hours. Because Sunny is the youngest of the three. Rainy always lets Sunny move first. The winner gets the right to control the weather. If there is no winner between Sunny and Rainy,

Cloudy controls the weather. The game play for all three conditions is shown in the exhibits. (Click the Sunny wins tab, the Rainy wins tab and the Neither wins tab to view the exhibits.)

You create the following algorithm to define the game play:

```
REPEAT UNTIL someone controls the weather
    Sunny makes a move.
    Rainy makes a move.
    IF Sunny has a winning line THEN
       Sunny controls the weather.
    END IF
    IF Rainy has a winning line THEN
       Rainy controls the weather.
    END IF
    If the board is full THEN
       Cloudy controls the weather.
    END IF
END REPEAT
```

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This algorithm will produce the correct result.

Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

A. No change is needed.

B. will cause an endless loop.

C. might give Rainy control of the weather when Sunny wins.

D. might give Sunny control of the weather when Rainy wins.

Correct Answer: A

References: https://www.bbc.co.uk/education/guides/zrxncdm/revision/6

QUESTION 2

You analyze the following pseudocode for playing a dice game:

```
SET Points TO 0
SET First Roll TO True
DO UNTIL User Quits
    SET Dice1 TO Random Number from 1 to 6
    SET Dice2 TO Random Number from 1 to 6
    Set Sum TO Dice1 + Dice2
    IF First Roll = True THEN
       IF Sum = 2, 3, or 12 THEN
          Player Loses
          SET First Roll TO True
       ELSE IF Sum = 7 or 11 THEN
          Player Wins
          Set First Roll TO True
       ELSE
          SET Point TO Sum
          SET First Roll TO False
       End If
    ELSE IF Sum = 7 THEN
       Player Loses
    ELSE IF Sum = Point THEN
       Player Win
    END IF
LOOP
```

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A player rolls the dice three times with the following results:

Roll1: 3 and 5

Roll2: 2 and 6

Roll3: 4 and 3

You need to determine what happens with each roll of the dice.

What are the outcomes for each roll? To answer, select the appropriate options in the answer area.

Hot Area:

Answer Area

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Correct Answer:

Answer Area

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QUESTION 3

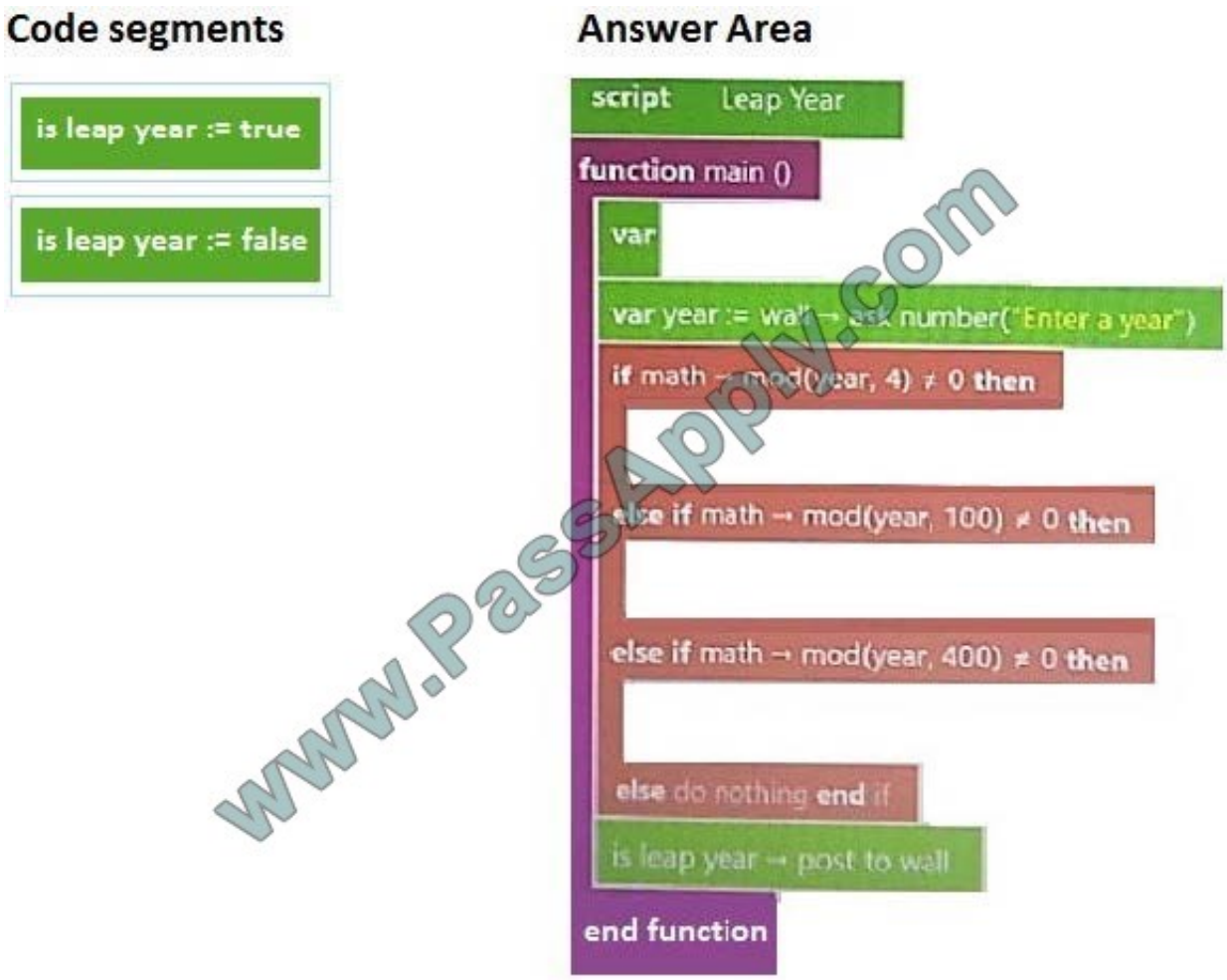
You are creating a Touch Develop app that determines whether a given year is a leap year. You are given the following leap year requirements:

A year is a leap year if it is divisible by 4 but not by 100. If the year is divisible by 4 and by 100, it is not a leap year unless it is also divisible by 400.

You need to write the code to accept a year as user input and output whether it is a leap year to the wall.

How should you complete the code? To answer, drag the appropriate code segment to the correct location. Each code segment must be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Select and Place:



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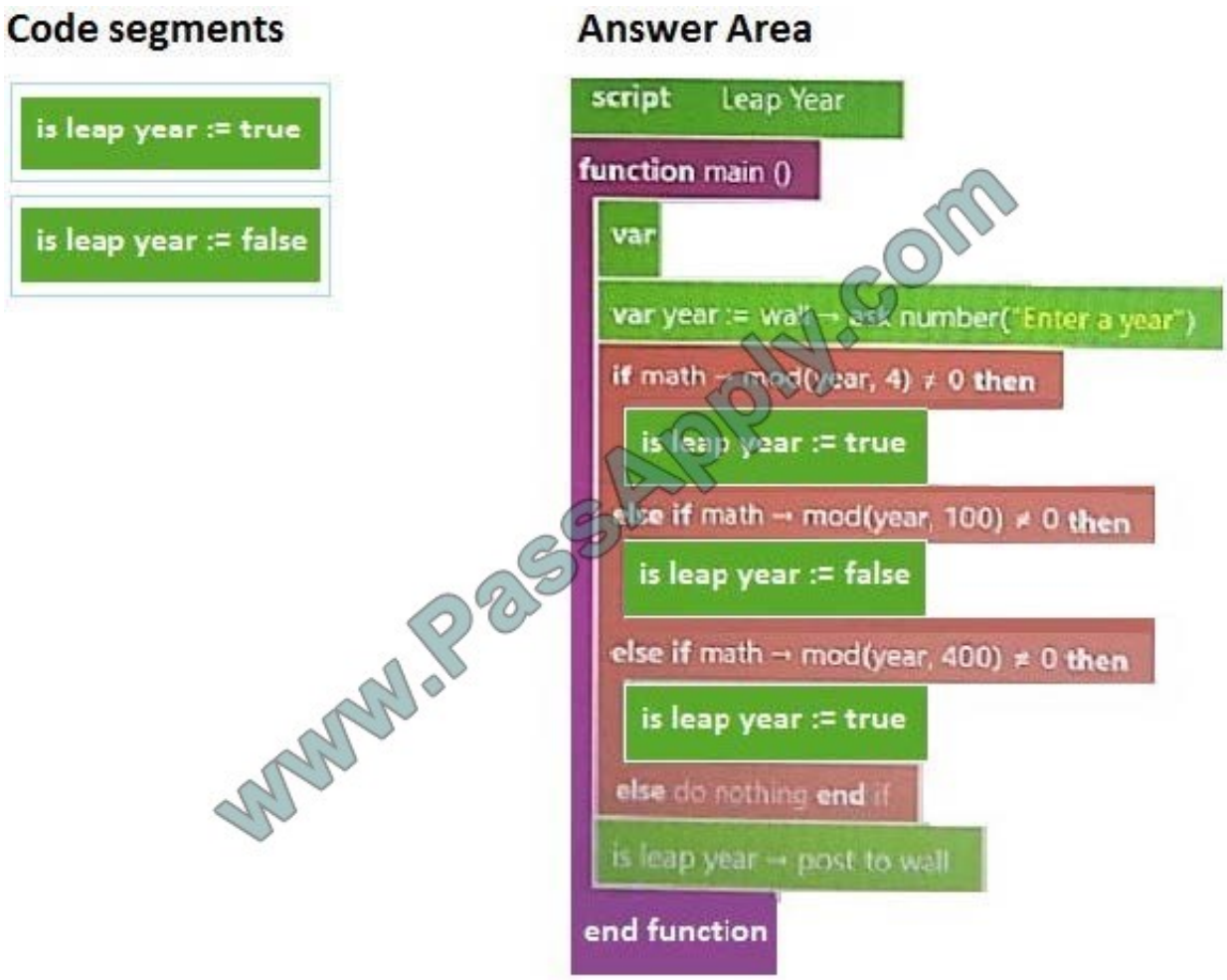
Correct Answer:



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QUESTION 4

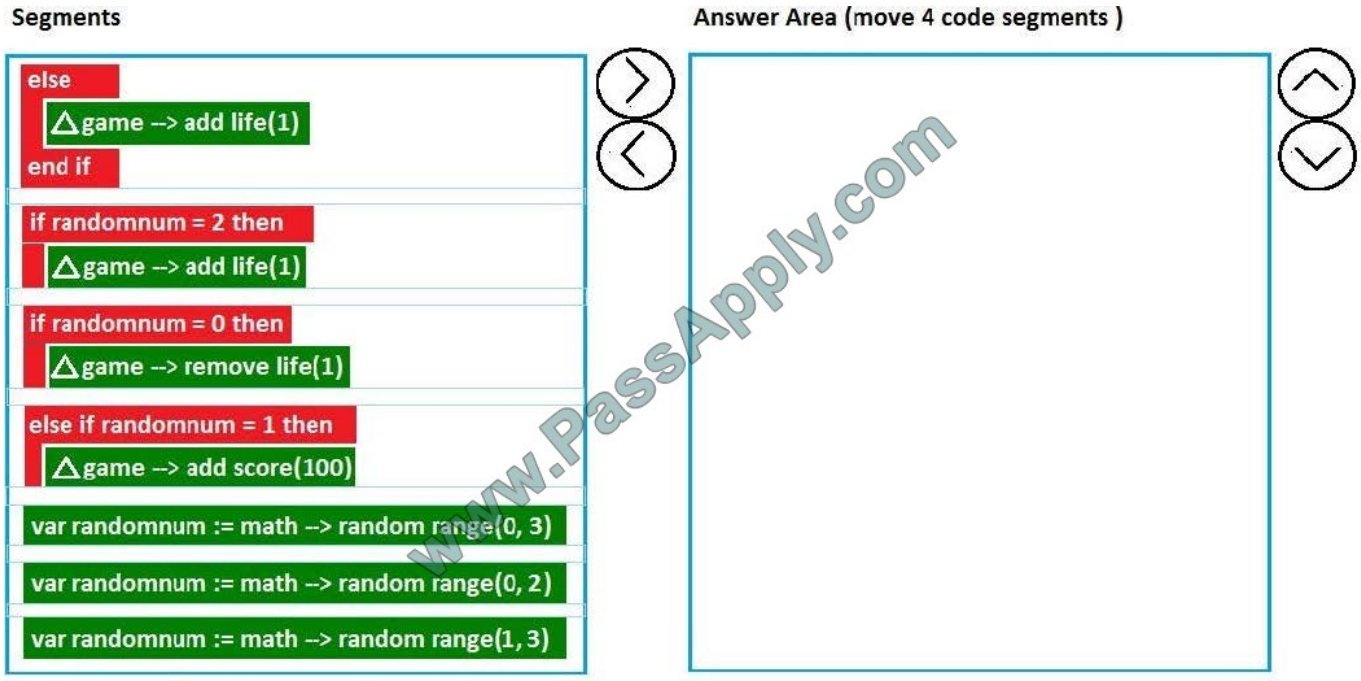
You are writing code for a game that uses a random number function to determine actions within the game. The actions are described in the following table.

Random number	Action
0	Player loses a life
1	Player earns 100 points
2	Player earns a life

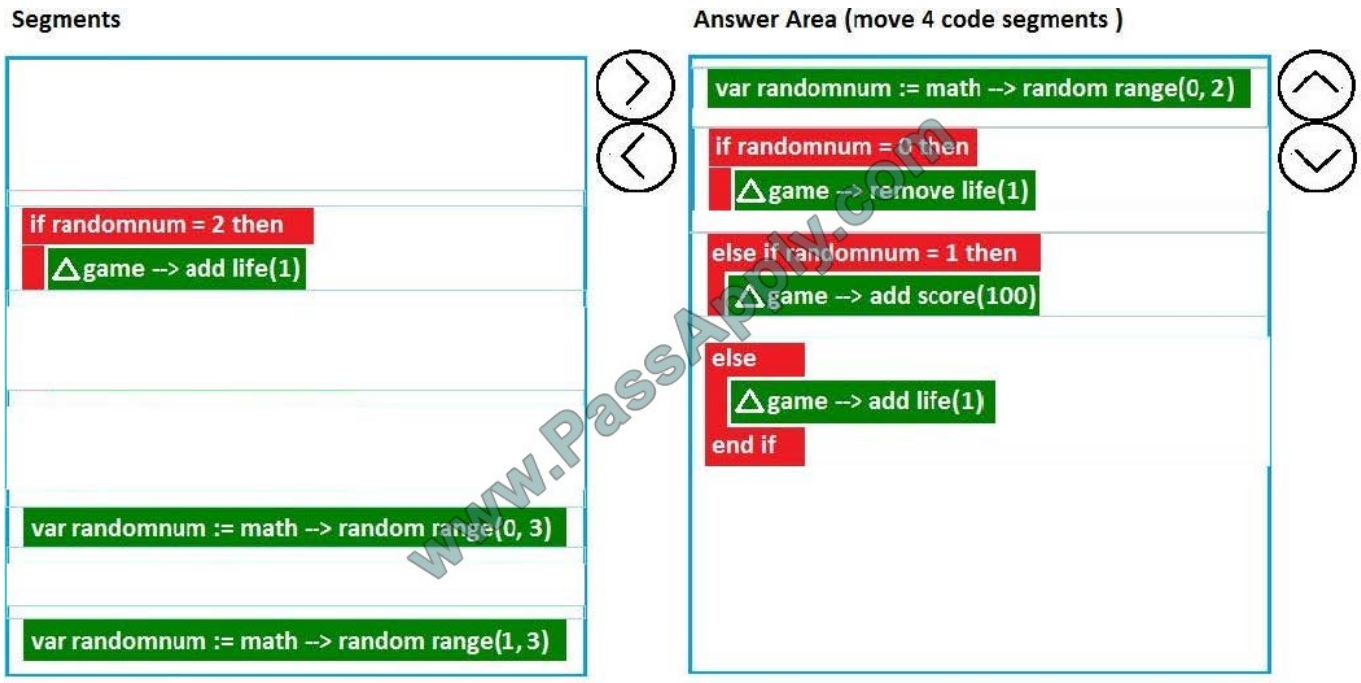
You need to implement the code.

Which four code segments should you use to develop the solution? To answer, move the appropriate code segments from the list of code segments to the answer area and arrange them in the correct order.

Select and Place:



Correct Answer:



https://www.touchdevelop.com/docs/if

QUESTION 5

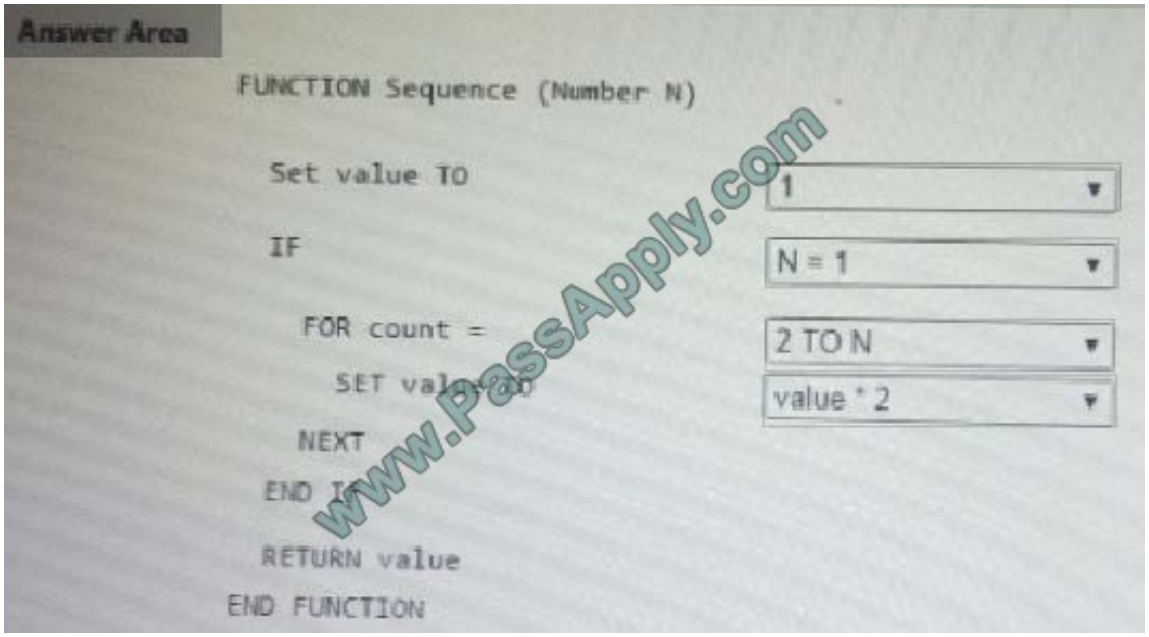
You are writing a function to return a value from the following sequence: 3, 6, 12, 24, 48, 96, 192, etc.

You must create a function that will accept a parameter N and return the value at the Nth position in the sequence. For example, if N is 4, the value 24 should be returned.

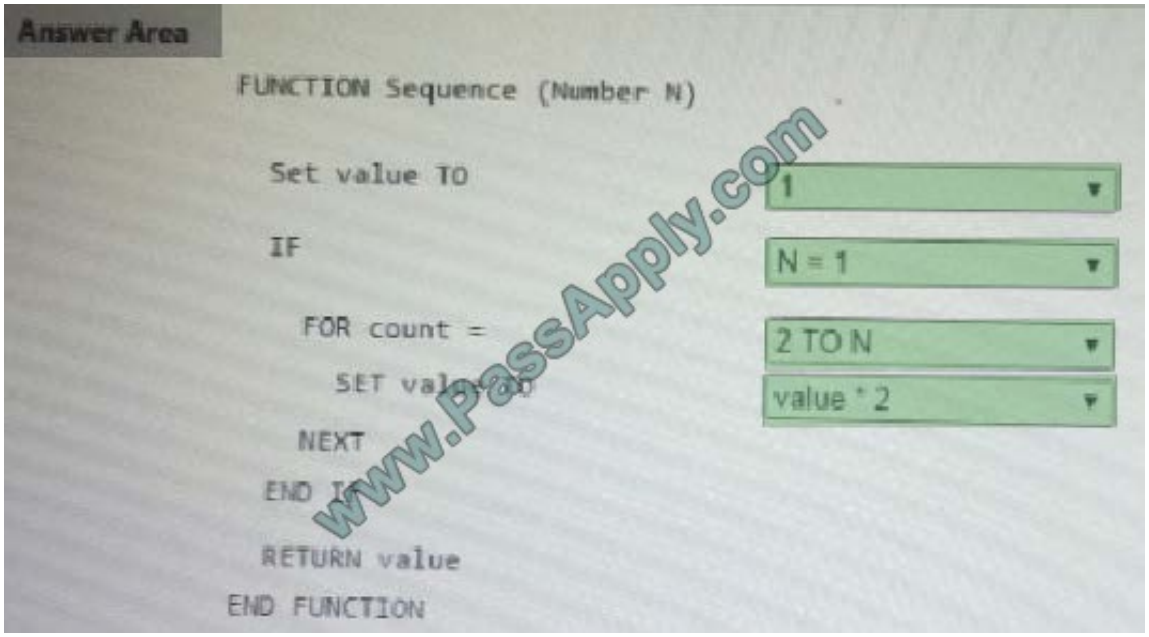
You need to complete the algorithm to find the Nth number in the sequence. To answer, select the appropriate pseudocode segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



Correct Answer:



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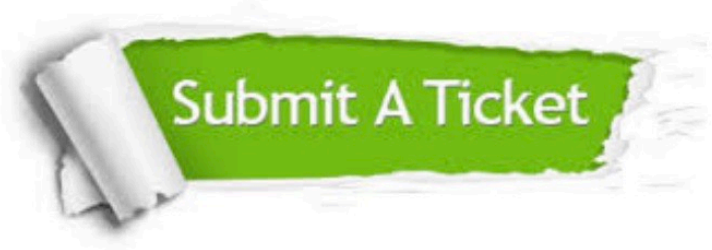

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