



## 98-380<sup>Q&As</sup>

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

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**QUESTION 1**

Best For You Organics Company just completed their annual inventory and found that their automated inventory system is not working correctly. The table below shows the results from the beginning inventory, physical inventory, and the reported inventory from the automated system.

Juice Type	Starting Inventory	Physical Inventory	Automated Inventory
Apple Berry	10	6	2
Pear Guava	20	14	8
Orange Banana	15	7	-1
Pineapple Coconut	30	10	-10

The company wants you to look at their inventory program and devise a plan for solving their inventory problems.

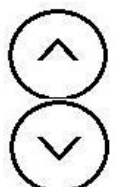
What step-by-step proposal should you present to the company? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:

**Actions**

**Answer Area (move all actions)**

- Review the current program to identify the problem areas.
- Create a new program reusing as many portions of the current code as possible.
- Test the program to determine anomalies.
- Publish the program.
- Correct any anomalies.



Correct Answer:



**Actions**

**Answer Area (move all actions)**

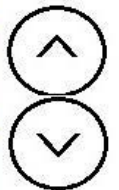
Review the current program to identify the problem areas.

Create a new program reusing as many portions of the current code as possible.

Test the program to determine anomalies.

Correct any anomalies.

Publish the program.



**QUESTION 2**

You and your friend Pat are working on a coding project to write code for “Triangles to Octagons”. The program randomly selects a number ranging from 3 to 8. The program will then draw a regular polygon with the number of sides ranging

from 3 to 8 (triangles to octagons) as specified by the input.

Pat writes the following pseudocode:

```

main
    DECLARE sides defined as the number of sides of a polygon
    SET sides = random number (3,8)
    drawPolygon(sides)
END
drawPolygon
    REPEAT sides
        Pen down
        Move forward (100)
        Turn Right (360/sides)
    END REPEAT
END
  
```

You need to identify the functions and parameters in the pseudocode. To answer, drag the appropriate label from the column on the left to its example on the right. Each label may be used once, more than once, or not at all. NOTE: Each correct match is worth one point.

Select and Place:



**Labels**

Function

Parameter

Neither

**Answer Area**

**Examples**

8

random number

drawPolygon

360/sides

Repeat sides

**Labels**

Correct Answer:

**Labels**

Function

Parameter

Neither

**Answer Area**

**Examples**

Parameter

Neither

Function

Parameter

Neither

**Labels**

**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:

### Code segments

is leap year := true

is leap year := false

### Answer Area

```
script Leap Year
function main ()
var
var year := wall → ask number("Enter a year")
if math → mod(year, 4) ≠ 0 then
else if math → mod(year, 100) ≠ 0 then
else if math → mod(year, 400) ≠ 0 then
else do nothing end if
is leap year → post to wall
end function
```

Correct Answer:



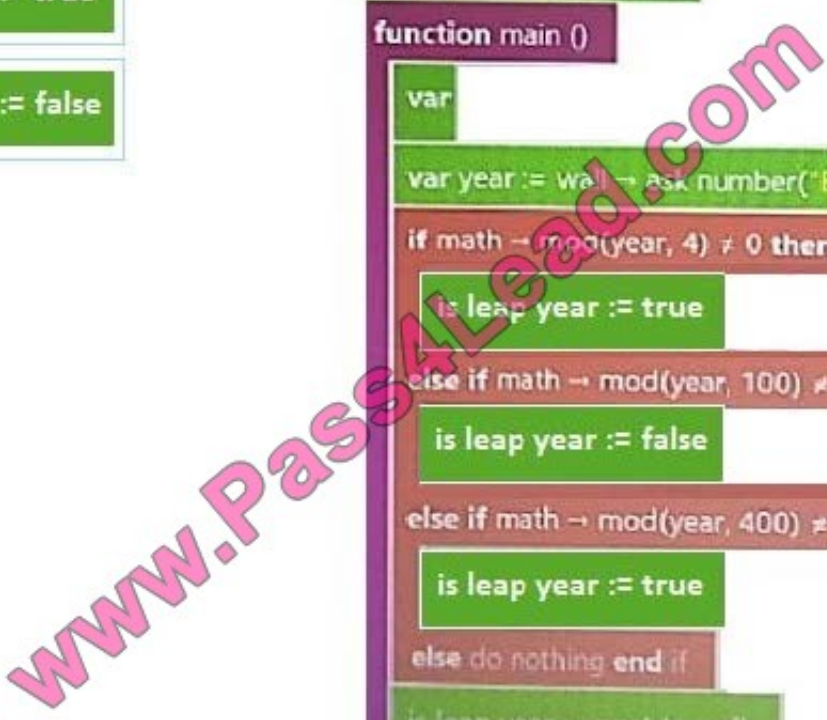


### Code segments

```
is leap year := true  
is leap year := false
```

### Answer Area

```
script Leap Year  
function main ()  
  var  
  var year := wall → ask number("Enter a year")  
  if math → mod(year, 4) ≠ 0 then  
    is leap year := true  
  else if math → mod(year, 100) ≠ 0 then  
    is leap year := false  
  else if math → mod(year, 400) ≠ 0 then  
    is leap year := true  
  else do nothing end if  
  is leap year → post to wall  
end function
```



### QUESTION 4

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
```

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 5

Southridge Video is computerizing its inventory procedures. You are creating a computer program that allows Southridge to add new videos as they arrive, remove videos as they are sold, check inventory for a specific video, and print reports

for how many videos games are currently on hand.

You decide to create a collection to store the titles of the videos in stock. If multiple copies of the same title are in stock, they are stored as individual items in the collection.

You need to identify the programming process that will be used to implement each business process. To answer, drag the appropriate programming process from the column on the left to its business on the right. Each programming process

may be used once, more than once, or not at all.

Select and Place:



### Programming Processes

- 
- 
- 
- 

### Answer Area

- 
- 
- 
- 

Correct Answer:

### Programming Processes

- 
- 
- 
- 

### Answer Area

- 
- 
- 
-





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