



98-380^{Q&As}

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

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QUESTION 1

You are building a treasure hunt game.

When the player opens a treasure box, a random prize might be awarded with the following probabilities:

Gold Prize 2%

Silver Prize 5%

Bronze Prize 20%

You are designing an algorithm to decide the prize using the random function. The random(limit) function returns a random integer between 1 and limit, including limit. For example, if the limit is 20, the function returns a value between 1 and

20.

Hot Area:

```
Answer Area

SET value TO random(100)

IF value < 0.02 THEN
    RETURN "Gold"
ELSE IF value < 5 THEN
    RETURN "Silver"
ELSE IF value < 0.2 THEN
    RETURN "Bronze"
ELSE
    RETURN "Empty"
END IF
```

Correct Answer:



```
Answer Area

SET value TO random(100)

IF value < 0.02 THEN

    RETURN "Gold"

ELSE IF value < 5 THEN

    RETURN "Silver"

ELSE IF value < 0.2 THEN

    RETURN "Bronze"

ELSE

    RETURN "Empty"

END IF
```

QUESTION 2

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

You are writing an app for Best For You Organics Company.

The app needs to allow the user to convert a recipe from cups to liters. The app will use the conversion ratio of 1 cup is equal to 0.2366 liters.

You define the pseudocode as follows:

INPUT cups

liters = cups * 0.2366

OUTPUT liters

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. cups * 2.366

C. cups / 0.2366



D. cups / .02366 * 10

Correct Answer: A

QUESTION 3

What are the principles of user experience design?

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Hot Area:

Answer Area

Yes

No

A user's comfort and the emotional experience with a product is part of user experience design.

One of the guidelines of user experience design is to design for yourself.

The more you know about the user, the more likely the user experience design will be successful.

People like the same things so there is little need to research what users need to create a successful user experience design.

Correct Answer:



Answer Area

Yes

No

A user's comfort and the emotional experience with a product is part of user experience design.

One of the guidelines of user experience design is to design for yourself.

The more you know about the user, the more likely the user experience design will be successful.

People like the same things so there is little need to research what users need to create a successful user experience design.

QUESTION 4

You are creating an app for Alpine Ski House.

Players will move a skier between pairs of flags as the skier moves down the slope. The number of flag pairs that a user must successfully pass is three times the player's level.

Flag1 is displayed on the left and Flag2 is displayed on the right, as shown in the exhibit.

(Click the Exhibit tab.)

When the skier outside the flags, the skier will crash into an obstacle and the following actions will occur:

The player will lose one life.

An animation will play

A sound will play.

The player starts the game with 10 lives. If the player's life becomes 0 before the skier reaches the bottom, the skier crashes and the game ends. If the skier reaches the bottom the player gains one level.

You need to design the algorithm.

Which pseudocode should you use? To answer, select the appropriate pseudocode segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:



```
SET PairsPassed TO Life
WHILE Life > 0 AND PairsPassed < Level * 3
  IF Skier x-position < Flag1 x-position
    OR Skier x-position > Flag2 x-position THEN
    SET Life TO Life - 1
    Play animation
    Play sound
  ELSE
    SET PairsPassed TO Level * 3
  END IF
END WHILE
IF Life < 0 THEN
  SET Level TO Level + 1
ELSE
  Game Ends
END IF
```

Correct Answer:



```
SET PairsPassed TO Life
WHILE Life > 0 AND PairsPassed < Level * 3
  IF Skier x-position < Flag1 x-position
    OR Skier x-position > Flag2 x-position THEN
    SET Life TO Life - 1
    Play animation
    Play sound
  ELSE
    SET PairsPassed TO PairsPassed + 3
  END IF
END WHILE
IF Life < 0 THEN
  SET Level TO Level + 1
ELSE
  Game Ends
END IF
```

QUESTION 5

You write the following code:



```
script pictures
function main ()
  var pic := media → choose picture
end function
```

What can you tell about the variable pic? To answer, select the appropriate options in the answer area.

Hot Area:

Answer Area

The pic variable has [answer choice] scope.

Choose One... ▼

- Choose One...
- Local
- Global

You can call the [answer choice] function on the pic variable.

Choose One... ▼

- Choose One...
- contains
- crop
- split

Correct Answer:



Answer Area

The pic variable has **[answer choice]** scope.

Choose One... ▼

- Choose One...
- Local
- Global

You can call the **[answer choice]** function on the pic variable.

Choose One... ▼

- Choose One...
- contains
- crop
- split



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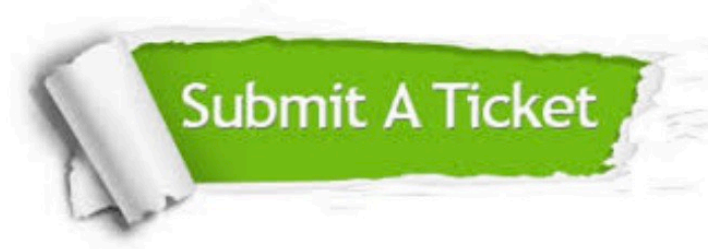
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