Quiz review

Started on	Thursday, 16 May 2024, 5:08 PM
State	Finished
Completed on	Thursday, 16 May 2024, 5:25 PM
Time taken	17 mins 55 secs
Marks	18.81/20.00
Grade	**94.03** out of 100.00
Feedback	Congratulations!!! You have passed by securing more than 80%

Question 1

Correct

Mark 1.00 out of 1.00

Match the appropriate opening and closing blocks in looping statements.

FOR	END FOR ✔
WHILE	END WHILE ✔
IF	END IF ✔
BEGIN	END ✔

Your answer is correct.

The correct answer is: FOR → END FOR, WHILE → END WHILE, IF → END IF, BEGIN → END

Question 2

Correct

Mark 1.00 out of 1.00

Which looping logic is exit controlled?

Select one:

- a. do-while loop ✔
- b. For loop
- c. While loop

Your answer is correct. **(Do-while loop logic executes the statements at least once, and finally checks for the condition to be evaluated)**

The correct answer is: do-while loop

Question 3

Correct

Mark 1.00 out of 1.00

```
BEGIN
        DECLARE variables i, factorial
        SET factorial <-- 1
        FOR  i<--1 to 5 do
                factorial <--factorial * i
                i <-- i+1
        END FOR
        PRINT factorial
  END
```

Which of the following statement should be inserted to complete the above pseudo code for finding factorial of 5 numbers.

Your answer is correct.

The logic for finding a factorial is factorial * index

The correct answer is:

```
BEGIN
        DECLARE variables i, factorial
        SET factorial <-- 1
        FOR  i<--1 to 5 do
                [ factorial <--factorial * i ]
                i <-- i+1
        END FOR
        PRINT factorial
  END
```

Which of the following statement should be inserted to complete the above pseudo code for finding factorial of 5 numbers.

Question 4

Correct

Mark 1.00 out of 1.00

Consider the output: “0, 2, 4, 6, 8 ,10 ,12, 16”

Which of the below given pseudo code snippet gives the above output?

Select one:

a.

```
BEGIN
DECLARE number, count, even
SET count <-- 16, number <-- 0, even <-- 0
WHILE number<count
        PRINT even
        SET even <-- even + 2
        Number <-- number+ 1
END WHILE
PRINT even
END
```


b. ✔

```
BEGIN
DECLARE number, count, even
SET count <-- 8, number <-- 0, even <-- 0
WHILE number<count
        PRINT even
        SET even <-- even + 2
        number <-- number + 1
END WHILE
PRINT even
END
```


c.

```
BEGIN
DECLARE number, count, even
SET count <-- 8, number <-- 0, even <-- 0
WHILE number<count
        PRINT even
        SET even <-- even + 2
        Number <-- number+ 2
END WHILE
END
```


d.

```
BEGIN
DECLARE number, count, even
SET count <-- 8, number <-- 0, even <-- 0
WHILE number<count
        PRINT even
```

```
        SET even <-- even + 1
        Number <-- number+ 1
    END WHILE
    PRINT even
    END
```

Your answer is correct.

The correct answer is:

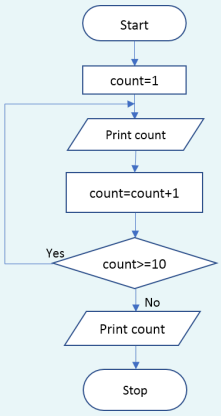
```
BEGIN
DECLARE number, count, even
SET count <-- 8, number <-- 0, even <-- 0
WHILE number<count
        PRINT even
        SET even <-- even + 2
        number <-- number + 1
END WHILE
PRINT even
END
```

Question 5

Correct

Mark 1.00 out of 1.00

Predict the output of the given flowchart.



Select one:

a.
1
1

b.
2
1

c.
1
2

d.
2
2

Your answer is correct.

Print statement is executed first, and prints count as 1. Count is incremented to 1 and the condition will be checked. When it becomes false, the final count value 2 gets printed

The correct answer is:

1
2

Question 6

Correct

Mark 1.00 out of 1.00

Iteration/looping is a repetition of_____

Select one or more:

- [x] a. Block of statements
- [x] b. single statement
- [ ] c. variables
- [ ] d. operation

Your answer is correct. **Looping block can have a single statement or block of statements**

The correct answers are: single statement, Block of statements

Question 7

Correct

Mark 1.00 out of 1.00

Do-while looping statement is almost same as_____

Select one:

- ( ) a. for loop
- ( ) b. Nested if
- ( ) c. if-else
- (•) d. While loop

Your answer is correct.

The correct answer is: While loop

Question 8

Correct

Mark 1.00 out of 1.00

What is true about FOR LOOP?

Select one:

- ( ) a. For loop executes the statement without checking the condition
- (•) b. In for loop, the exact number of iterations is known
- ( ) c. For loop cannot be nested
- ( ) d. For loop executes the statements at least once even if the condition is false

Your answer is correct. **In for loop, the exact number of iterations is known and it is entry controlled. For loop can be nested**

The correct answer is: In for loop, the exact number of iterations is known

Question 9

Correct

Mark 1.00 out of 1.00

Jack wants to book flight tickets in Feather-Airways' online portal for his family of five. Passenger details like name, age, gender etc. should be entered for each member. The same process of getting details continues for all the five members. The above scenario is a good example for which looping statements?

Select one:

- a. For loop ✔
- b. While loop
- c. Do-while loop

Your answer is correct. **When the exact number of iterations is known, For loop can be used**

The correct answer is: For loop

Question 10

Correct

Mark 1.00 out of 1.00

What will be the output for WHILE loop?

```
BEGIN
DECLARE number
SET number <-- 30
WHILE number>0
        number <-- number-4
END WHILE
PRINT number
END
```


Select one:

- a. 4
- b. 2
- c. -2 ✔
- d. 0

Your answer is correct.

The correct answer is: -2

Question 11

Correct

Mark 1.00 out of 1.00

What is the output for FOR-loop snippet?

```
FOR i <--1 to 15
        PRINT i
        i <-- i+3
END FOR
```

Select one:

- a. 4 7 10 13
- b. 1 4 7 10 13 ✔
- c. 1 4 7 10 13 15 16
- d. 4 7 10 13 16

Your answer is correct. Value gets incremented by 3, until the number is less than 15

The correct answer is: 1 4 7 10 13

Question 12

Correct

Mark 1.00 out of 1.00

Which of the following symbols is inappropriate in building the flowchart pertaining to sequential flow of program?

Select one:

- a. oval
- b. diamond ✔
- c. rectangle
- d. parallelogram

Your answer is correct. In a sequential Flow of a program, Decision making symbol is irrelevant

The correct answer is: diamond

Question 13

Correct

Mark 1.00 out of 1.00

The statement / statements within the loop must get executed at least once except for do-while statement. State True/False.

Select one:

- True
- False ✔

Your answer is correct. Looping statements except do-while are entry-controlled that is only if the condition is met it allows the block to execute. Whereas do-while executes the statement at least once before checking the condition

The correct answer is 'False'.

Question 14

Correct

Mark 1.00 out of 1.00

Which of the following statements are true with respect to looping statements?

Select one or more:

- a. the condition under which the iterative process should get terminated must be given ✔
- b. conditional statements are not allowed within a loop
- c. A loop should run infinite number of times
- d. initial condition must be applied before the loop begins to execute ✔

Your answer is correct. **Initial condition must be applied before the loop begins to execute. The iteration must terminate at some point of time. A looping statement can be nested and can have decision making statements**

The correct answers are: initial condition must be applied before the loop begins to execute, the condition under which the iterative process should get terminated must be given

Question 15

Correct

Mark 1.00 out of 1.00

Which of the following statements are true?

Select one or more:

- [ ] a. The operand in an expression must always be a variable.
- [x] b. An operand is a mandatory element in an expression. ✔
- [ ] c. The operand in an expression must always be a constant.
- [x] d. The operand in an expression can be a variable or a constant. ✔

Your answer is correct. **The operand in an expression can be a variable or a constant. Operator without operand is meaningless**

The correct answers are:
An operand is a mandatory element in an expression.
The operand in an expression can be a variable or a constant.

Question 16

Incorrect

Mark 0.00 out of 1.00

Consider you have a Rubik cube with different colors in each face. To solve this cube, you will continue to rotate the sides until you reach same colors in all faces. This is a real time example for which looping statements?

Select one:

- (•) a. Do-while ✖
- ( ) b. For
- ( ) c. Nested-if
- ( ) d. While

Your answer is incorrect. **In Rubik cube, you first check for the colours in all sides. If the colours are not the same, the cube is rotated until it attains same colours in all faces**

The correct answer is: While

Question 17

Partially correct

Mark 0.81 out of 1.00

w h r e a i f l g o t m n p d

DOWN:

1) Step by step list of instructions

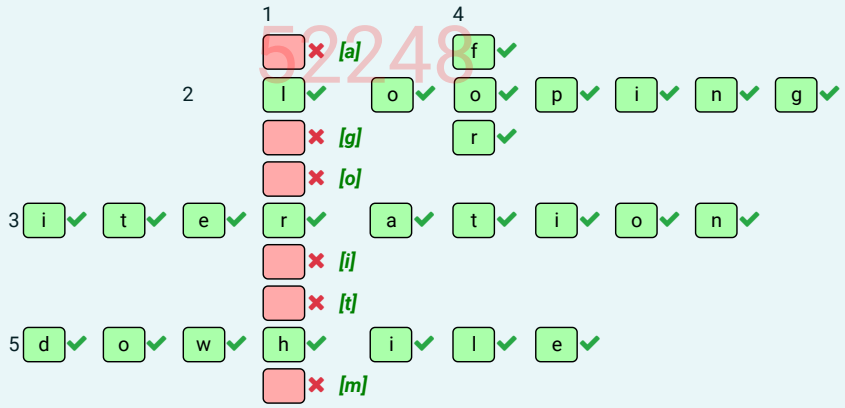
4) When you know the exact number of iterations, this loop is used

Across:

2)When a process/set of actions is to be repeated, these statements are used.

3) In looping, Each execution of a statement/block of statements is technically termed as_____

5) This loop statement is also called as exit-controlled loop



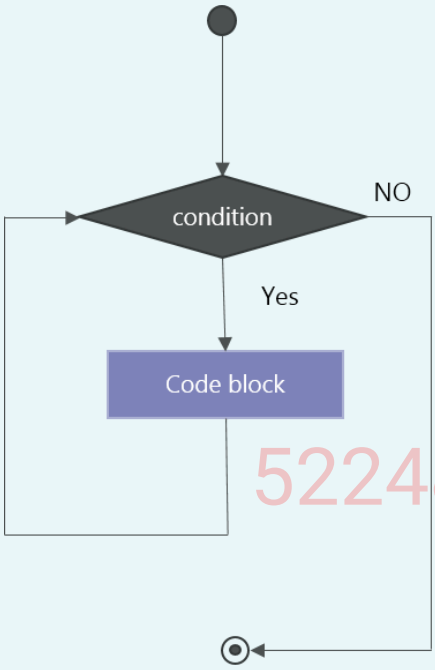
Your answer is partially correct.

Question 18

Correct

Mark 1.00 out of 1.00

Identify the logic which suits the flowchart?



Select one:

- a. While loop ✔
- b. Do-while loop
- c. nested loop
- d. for loop

Your answer is correct. While loop checks for the condition first. Only if it is true, it enters the block. The statements gets repeated until the condition becomes false.

The correct answer is: While loop

Question 19

Correct

Mark 1.00 out of 1.00

It's Halloween. You go from house to house, tricking or treating. You get 2 candies from each house that you go to. You must return home once you collect 100 candies. Can you arrange the sequence for this loop activity.

1 BEGIN
2 SET candy count <- 0
3 END WHILE
4 DECLARE candy_count
5 WHILE candy_count<=100
6 candy count <- candy_count+2
7 END

a. 1 4 2 5 6 3 7 ✔
b. 1 2 4 3 6 5 7
c. 1 4 2 3 6 5 7
d. 1 4 5 2 3 6 7

Your answer is correct.

The correct answer is:
1 4 2 5 6 3 7

Question 20

Correct

Mark 1.00 out of 1.00

Looping statements are also called _____

a. Sequence logic
b. Program logic
c. Selection logic
d. Iteration logic ✔

Your answer is correct.

The correct answer is:
Iteration logic

◄ Pseudocode using Loops - Quiz

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