

Started on	Thursday, 16 May 2024, 6:12 PM
State	Finished
Completed on	Thursday, 16 May 2024, 6:19 PM
Time taken	6 mins 58 secs
Marks	2.00/2.00
Grade	100.00 out of 100.00

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## Question 1

Correct

Mark 1.00 out of 1.00

Select the appropriate code snippet for the given problem statement provided as pseudocode.

Problem Statement :

### Dinner Plan

Five friends plan to go out for dinner. They plan to order equal number of dishes. Each row specifies individual cost. Find the total amount each person needs to pay.

Assume the values for this matrix for 3 dishes are

12 23 18

45 32 60

42 39 23

54 42 60

25 84 30

The output will be

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Amount to be paid by person 1 is 53

Amount to be paid by person 2 is 137

Amount to be paid by person 3 is 104

Amount to be paid by person 4 is 156

Amount to be paid by person 3 is 139

Explanation : Output is the sum of each row

### Code:

BEGIN

DECLARE variable arr[5][20], n, sum=0

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FOR j IN 0 to n-1 DO

READ arr[i][j]

END FOR

END FOR

FOR i IN 0 TO 4 DO

SET sum = 0

FOR j IN 0 TO n-1 DO

sum = sum + arr[i][j]

END FOR

PRINT "Amount to be paid by person " + (i+1) + " is " + sum

END FOR

END

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- ☐ a. FOR i IN 0 to 5 DO
- ☐ b. FOR i IN 0 to n DO
- ☒ c. FOR i IN 0 to 4 DO ✓
- ☐ d. FOR i IN 0 to 3 DO

Your answer is correct.

The correct answer is:

FOR i IN 0 to 4 DO

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## Question 2

Correct

Mark 1.00 out of 1.00

Choose the correct pseudocode for the below problem statement.

Problem Statement :

### Find Maximum value

Choose a pseudo code to find the maximum values in each row of a matrix. Assume it is a 3x3 matrix.

Explanation : Matrix will be with index

(0,0) (0,1) (0,2)

(1,0) (1,1) (1,2)

(2,0) (2,1) (2,2)

Assume the values for this matrix are

12 23 18

45 32 60

42 39 23

The output will be

Max value in row 1 is 23

Max value in row 2 is 60

Max value in row 3 is 42

☐ a. BEGIN  
DECLARE variable arr[3][3]  
FOR i IN 0 to 2 DO  
    FOR j IN 0 to 2 DO  
        READ arr[i][j]  
    END FOR  
END FOR  
SET max = arr[i][0]  
FOR i IN 0 TO 2 DO  
    FOR j IN 0 TO 2 DO  
        IF arr[i][j]>max THEN  
            max = arr[i][j]  
        END IF  
    END FOR  
    PRINT "Max value in row "+(i+1)+" is "+max  
END FOR  
END

☐ b. BEGIN  
DECLARE variable arr[3][3]  
FOR i IN 0 to 2 DO  
    FOR j IN 0 to 2 DO

```

END FOR
END FOR

FOR i IN 0 TO 2 DO
  READ arr[i][j]
  SET max = arr[i][0]
  FOR j IN 0 TO 2 DO
    IF arr[i][j]>max THEN
      max = arr[i][j]
    END IF
  END FOR
  PRINT "Max value in row "+(i+1)+" is "+max
END FOR
END

```

☒ c.

```

BEGIN
DECLARE variable arr[3][3]
FOR i IN 0 to 2 DO
  FOR j IN 0 to 2 DO
    READ arr[i][j]
  END FOR
END FOR
FOR i IN 0 TO 2 DO
  SET max = arr[i][0]
  FOR j IN 0 TO 2 DO
    IF arr[i][j]>max THEN
      max = arr[i][j]
    END IF
  END FOR
  PRINT "Max value in row "+(i+1)+" is "+max
END FOR
END

```

☐ d.

```

BEGIN
DECLARE variable arr[3][3]
FOR i IN 0 to 2 DO
  FOR j IN 0 to 2 DO
    READ arr[i][j]
  END FOR
END FOR
FOR i IN 0 TO 2 DO
  SET max = arr[i][0]
  FOR j IN 0 TO 2 DO
    IF arr[i][j]>max THEN
      max = arr[i][j]
    END IF
  END FOR
  PRINT "Max value in row "+(i+1)+" is "+max
END FOR
END

```

```
END IF
END FOR
END FOR
PRINT "Max value in row "+(i+1)+" is "+max
END
```

Your answer is correct.

The correct answer is:

```
BEGIN
DECLARE variable arr[3][3]
FOR i IN 0 to 2 DO
  FOR j IN 0 to 2 DO
    READ arr[i][j]
  END FOR
END FOR
FOR i IN 0 TO 2 DO
  SET max = arr[i][0]
  FOR j IN 0 TO 2 DO
    IF arr[i][j]>max THEN
      max = arr[i][j]
    END IF
  END FOR
  PRINT "Max value in row "+(i+1)+" is "+max
END FOR
END
```

◀ Find the order

Jump to...

Check Your Understanding ►