

Monday, 17 February 2025, 11:07 PM Finished Monday, 17 February 2025, 11:08 PM 1 min 7 secs 2.00/2.00 100.00 out of 100.00

Question 1

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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

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

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

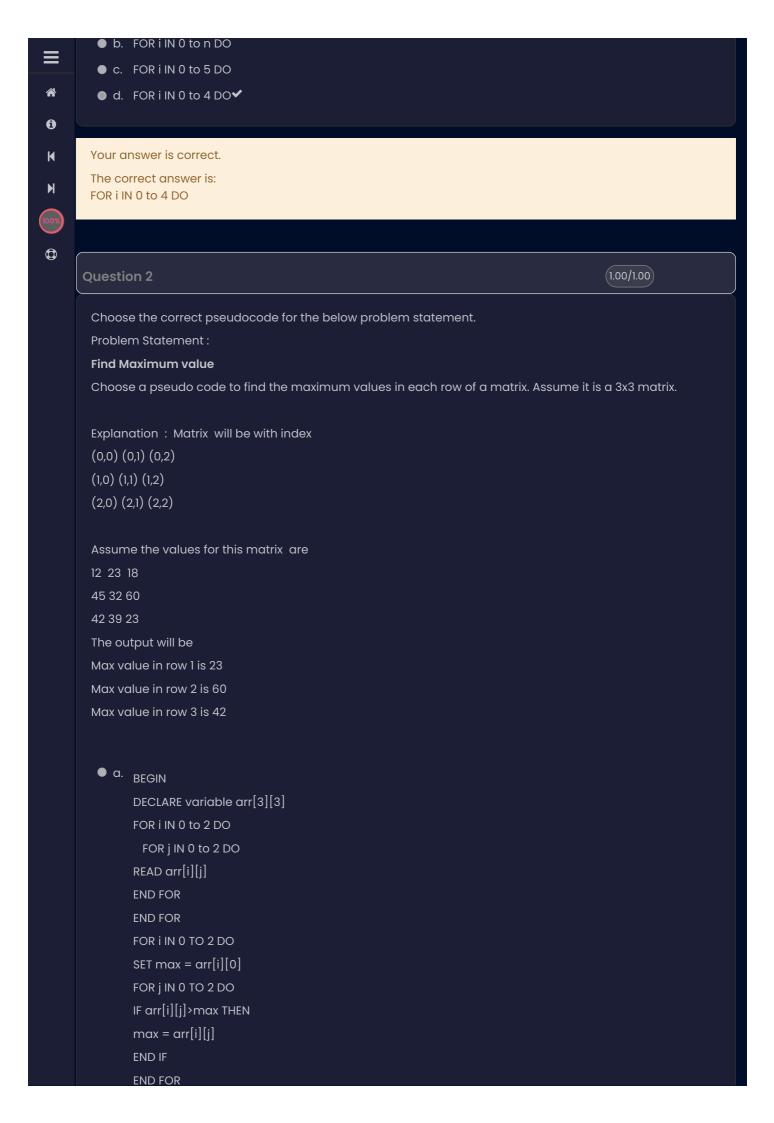
sum = sum + arr[i][j]

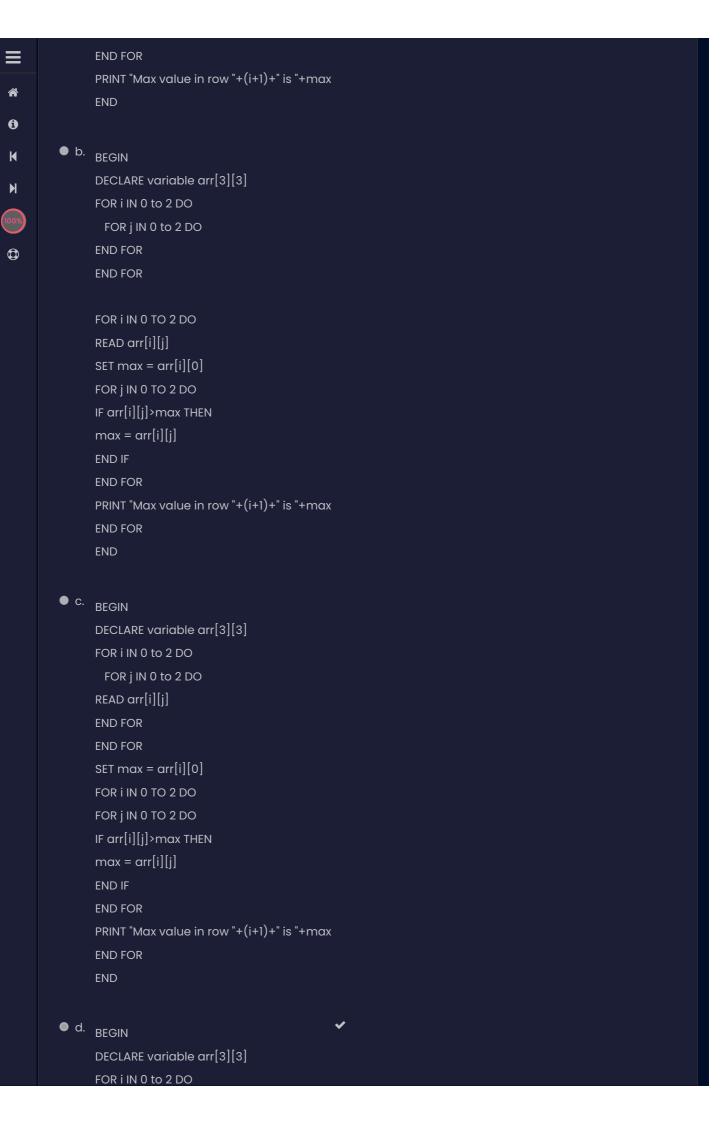
END FOR

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

END FOR

END







```
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
```