



Dashboard / Primer 2.0 - App Dev / Stage 1 / Software Fundamentals / Arrays

Assignment: Matrix addition

Write a pseudo code to perform matrix addition.

Assume a 2x2 matrix added with identity matrix[I2]. Store the result in another 2-d array.

Explanation : 2X2 matrix is of the format

(0 0) (0 1)
(1 0) (1 1)

Identity matrix I2 is

1 0
0 1

Sample Input :

Enter the matrix values

32
45
12
9

Sample Output :



33 45
12 10

Explanation :

Declare 2D array a, b and c of size 2X2.

DECLARE variable a[2][2],b[2][2],c[2][2]

Set array a as identity matrix

SET a = {{1,0},{0,1}}

Get the input for array b

FOR i IN 0 to 1 DO
 FOR j in 0 to 1 DO
 READ b[i][j]
 END FOR
END FOR

To find the sum of a and b and store in c array and print the c array.

FOR i IN 0 to 1 DO
 FOR j in 0 to 1 DO
 c[i][j] = a[i][j] + b[i][j] *-----> To find the sum*
 PRINT c[i][j] *-----> Print the sum*
 END FOR
END FOR

Terminate the pseudocode : *END*



Submission status

Submission status	Submitted for grading
Grading status	Not graded
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```
—  
BEGIN  
  
DECLARE a[2][2], b[2][2], c[2][2]  
  
SET a = {{1,0}, {0,1}}  
  
FOR i IN 0 TO 1 DO  
  
    FOR j IN 0 TO 1 DO  
  
        READ b[i][j]  
  
    END FOR  
  
END FOR  
  
FOR i IN 0 to 1 DO  
    FOR j in 0 to 1 DO  
        c[i][j] = a[i][j] + b[i][j]  
        PRINT c[i][j]  
    END FOR  
END FOR  
  
END
```

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