Q: To Rotate 2D Array, Anti-clockwise

// Online C compiler to run C program online

#include <stdio.h>

int main() {

// Write C code here

//printf("Hello world");

int array1[3][3] = {{1,2,3}, {4,5,6}, {7,8,9}};

int array2[3][3] = {};

int n = 3;

int i, j;

for (i = 0; i < n; i++)

{

for (j = 0; j < n; j++)

printf("%d ", array1[i][j]);

printf("\n");

}

printf("\n OUTPUT: \n");

int k = -1;

for (i = n-1; i >= 0; i--)

{

k += 1;

int m = -1;

for(j = 0; j < n; j++)

{

m += 1;

array2[k][m] = array1[j][i];

}

}

for (i = 0; i < n; i++)

{

for (j = 0; j < n; j++)

printf("%d ", array2[i][j]);

printf("\n");

}

return 0;

}

|  |  |
| --- | --- |
| Array 1 =  1 2 3  4 5 6  7 8 9 | OUTPUT:  3 6 9  2 5 8  1 4 7 |

Array1 = [[1, 2, 3,], [4, 5, 6], [7, 8, 9]]  
Array2 = []  
n = len(Array1)  
# print(n)  
  
for i in range(n):  
 for j in range(n):  
 print(Array1[i][j], end=" ")  
 print("")  
  
  
  
for i in range(n-1, -1, -1):  
 temp = []  
 for j in range(n):  
 temp.append(Array1[j][i])  
 Array2.append(temp)  
  
print(Array2)  
  
for i in range(n):  
 for j in range(n):  
 print(Array2[i][j], end=" ")  
 print("")

