

Go Spiral Shaktimaan 2

ZPRAC-16-17-Lab8

[30]Go Spiral Shakimaan 2!

As you know, Shaktimaan is a saviour of all those kids who are good at ESC101A, he has to save an ESC101A student trapped in a spiral maze by Dr Jaikal. Given a 2-D array, he has to reach the centre of the matrix by travelling around the matrix in a spiral pattern. Help him by printing the spiral pattern of his path.

Given n and a 2-D array A of size $n \times n$, print the elements of the array in a spiral pattern starting from the element $A[n-1][n-1]$ in the anti-clockwise direction till the last middle element of the array. See example for more clarification.

Example1:

Input:

3

1 2 3

4 5 6

7 8 9

Output:

9 6 3 2 1 4 7 8 5

Example2:

Input:

4

1 2 3 4

5 6 7 8

9 10 11 12

13 14 15 16

Output:

16 12 8 4 3 2 1 5 9 13 14 15 11 7 6 10

Constraints:

$1 \leq n \leq 100$

Note: you should declare only one 2-D array for scanning the input. you should not use

any other 1-D or 2-D array anywhere in your solution code.