**7 kyu**

**Array - squareUp b!**

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Java

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This is a question from codingbat

Given an integer n greater than or equal to 0, create and return an array with the following pattern:

squareUp(3) => [0, 0, 1, 0, 2, 1, 3, 2, 1]

squareUp(2) => [0, 1, 2, 1]

squareUp(4) => [0, 0, 0, 1, 0, 0, 2, 1, 0, 3, 2, 1, 4, 3, 2, 1]

n<=1000.

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using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApp1

{

class Program

{

public static int[] squareUp(int n)

{

int[] ans = new int[n \* n];

int indAns = 0;

int t = 1;

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

{

for (int j = n - 1; j >= 0; j--)

{

if (j + 1 <= t) ans[indAns] = j + 1;

else ans[indAns] = 0;

indAns++;

}

t++;

}

return ans;

}

static void Main(string[] args)

{

int[] res = squareUp(10);

for(int i =0; i<res.Length; i++)

{

Console.Write(res[i] + " ");

}

Console.ReadLine();

}

}

}