Centro Educativo Técnico Laboral Kinal

Taller III

Prof. Josué Noj

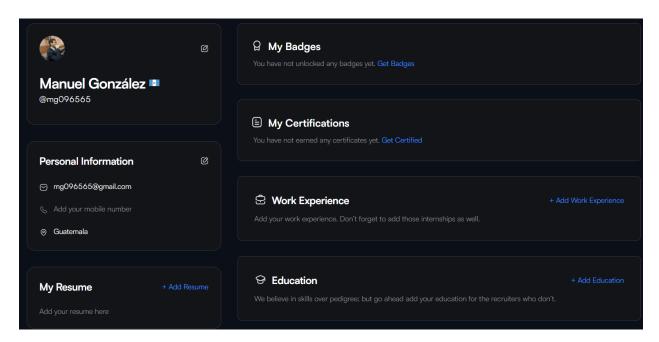
EJERCICIOS REALIZADOS DENTRO DE HACKERRANK

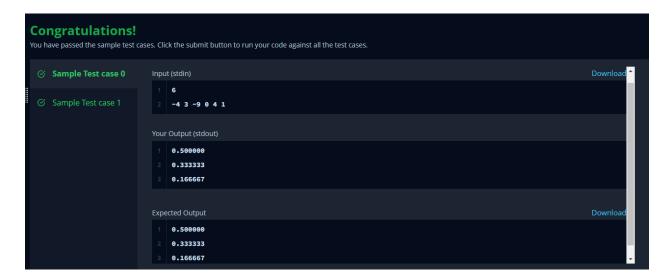
Manuel Eduardo González Avalos

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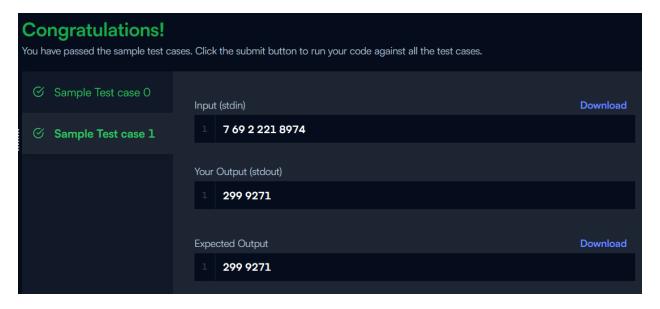
PERFIL



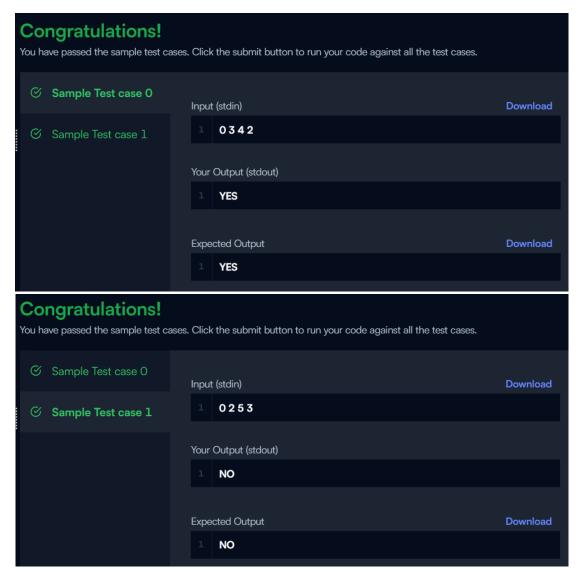




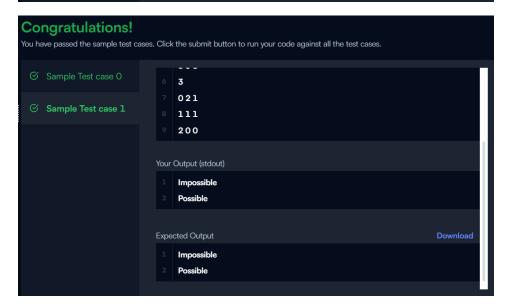
You have passed the sample test cases. Click the submit button to run your code against all the test cases. Sample Test case 0 Input (stdin) Download 1 12345 Your Output (stdout) 1 1014 Expected Output Download 1 1014

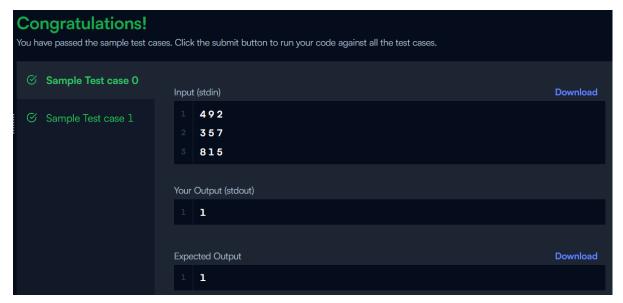


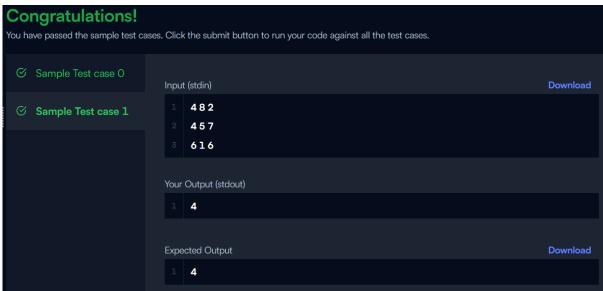
```
* Complete the 'kangaroo' function below.
  \star The function is expected to return a STRING.
  * The function accepts following parameters:
  * 1. INTEGER x1
  * 2. INTEGER v1
  * 3. INTEGER x2
   * 4. INTEGER v2
\vee function kangaroo(x1, v1, x2, v2) {
     // Write your code here
      if (v1 === v2) {
         return "NO";
     const jumps = (x2 - x1) / (v1 - v2);
     if (jumps >= 0 && Number.isInteger(jumps)) {
          return "YES";
     } else {
          return "NO";
```



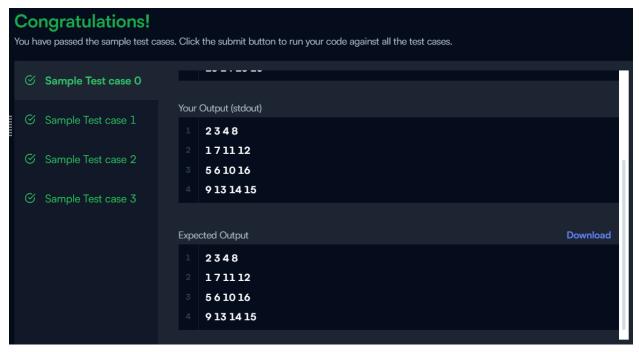
You have passed the sample test cases. Click the submit button to run your code against all the test cases. Sample Test case 0 Sample Test case 1 Sample Test case 1 Your Output (stdout) Possible Impossible Expected Output Possible Impossible

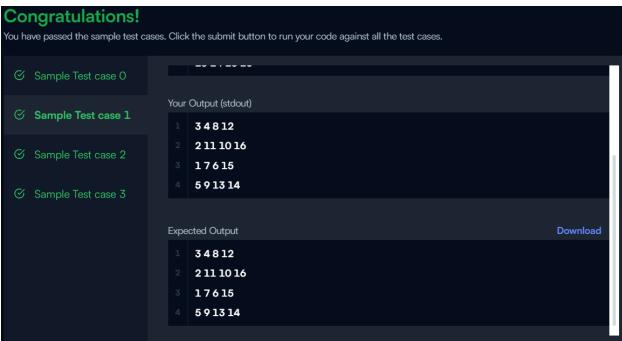


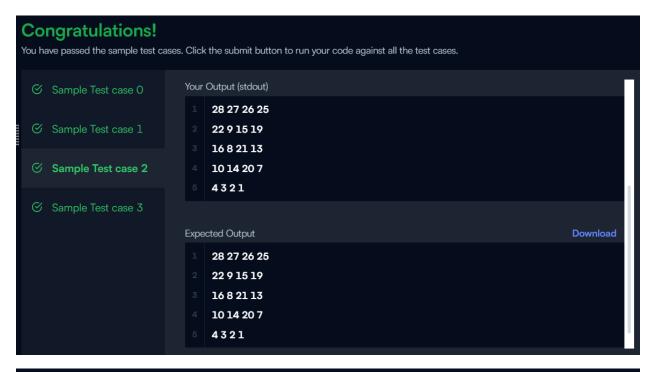


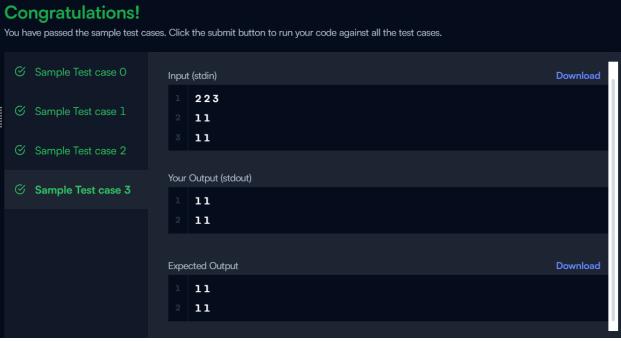


```
function matrixRotation(matrix, r) {
    // Write your code here
    const m = matrix.length;
    const n = matrix[0].length;
    const numLayers = Math.min(m, n) / 2;
    for (let layer = 0; layer < numLayers; ++layer) {</pre>
        const numRows = m - 2 * layer;
        const numCols = n - 2 * layer;
        const totalElements = 2 * (numRows + numCols) - 4;
        const rotation = r % totalElements;
        const elements = [];
        for (let i = layer; i < layer + numRows; ++i) {</pre>
            elements.push(matrix[i][layer]);
        for (let j = layer + 1; j < layer + numCols; ++j) {</pre>
            elements.push(matrix[layer + numRows - 1][j]);
        for (let i = layer + numRows - 2; i >= layer; --i) {
            elements.push(matrix[i][layer + numCols - 1]);
        }
        for (let j = layer + numCols - 2; j > layer; --j) {
            elements.push(matrix[layer][j]);
        }
        const rotatedElements = rotateArray(elements, rotation);
        let index = 0;
        for (let i = layer; i < layer + numRows; ++i) {</pre>
            matrix[i][layer] = rotatedElements[index++];
        for (let j = layer + 1; j < layer + numCols; ++j) {</pre>
            matrix[layer + numRows - 1][j] = rotatedElements[index++];
        for (let i = layer + numRows - 2; i >= layer; --i) {
            matrix[i][layer + numCols - 1] = rotatedElements[index++];
        for (let j = layer + numCols - 2; j > layer; --j) {
            matrix[layer][j] = rotatedElements[index++];
    matrix.forEach(row => console.log(row.join(" ")));
```









```
function twoStrings(k, a, b) {
    // Write your code here
    if (!a || !b || a.length === 0 || b.length === 0) {
       return ["", ""];
    }
    const charA = a.charAt(0);
    const charB = b.charAt(0);

    if (charA === charB) {
       return [charA, charB];
    }
    if (k < 2) {
       return [charA, charB];
    }
    return [charA, charB];
}</pre>
```

