Problem Domain:

- Write a function called **reverseArray** which takes an array as an argument. Without utilizing any of the built-in methods available to your language, return an array with elements in reversed order.

Input:

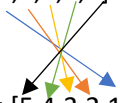
1. Int[]

Output:

1. Int[]

Visual:

- Input [1,2,3,4,5]



- Output [5,4,3,2,1]

Edge Case: Array < 2 or null array was sent

Algorith:

1. Create a function that takes an array as a parameter returns another array
2. Create a temporary variable to store a value
3. Create loop that traverses an array up to half the length
4. Store the array item at position index in temporary variable
5. Set the array item at position index equal to the array at position max length subtract 1 and index
6. Return modified array

Big O:

1. Time: O(n)
2. Space: O(1)

Psuedo Code:

Algorithm reverseArray(int[] arr)

- Declare int temp
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- If arr length > 1
    - For index = 0; to arr length / 2
        - temp = arr[0]
        - arr[0] = arr[length – 1 – index]
        - arr[length – 1 – index] = temp
- return returnArr

Verification:

[1,2,3,4,5]

Array	Index	Temp	Arr[index]	Arr[length-1-index]	Index < arr.length - 1
[1,2,3,4,5]	0	1	1	5	0 < 2
[1,2,3,4,5]	0	1	5	1	0 < 2
[5,2,3,4,1]	1	2	2	4	1 < 2
[5,4,3,2,1]	1	2	4	2	1 < 2
[5,4,3,2,1]