



## Assignment 2

Provide a Java-code implementation for each of the following methods.

1. `public int[] reverse(int[] arr);`  
Reverses the elements of a single dimensional array in place.
2. `public int[] sumEvenOdd(int[] arr);`  
Returns sum of the even and the odd elements in a single dimensional Array of 2 elements [sumEven, sumOdd] and returns an array of [0, 0] if the array is empty .
3. `public double average(int[] arr);`  
Returns the average of the elements in an array and 0 if the array is empty.
4. `public int[] moveValue(int[] arr, int val);`  
Move elements that equals to val to the end of the array and the rest of the elements to the start with preserving their relative order.  
Example:  
Input: [1,2,3,4,5,6,5, 5, 7, 7], val = 5  
Output: [1, 2, 3, 4, 6, 7, 7, 5, 5, 5]
5. `public int[][] transpose(int[][] arr);`  
Transpose a 2d-rectangular array.  
Assume your input is always rectangular, but it might be empty.
6. `public int fibonacci(int n);`  
Returns the Nth term of the Fibonacci Sequence: 0, 1, 1, 2, 3, 5, 8, 13, .....

Notes:

- Provide your solutions on Hackerrank Online Judge.
- You should work individually.
- Plagiarism will be seriously penalized.