

NAME: _____

TRISECT INSTITUTE**J3C2**

DATE: _____

Job Oriented Java**ARRAY:
COMMON
PROBLEMS**

Problem 1	Given an array as input. Create a new array in which each element is 3 times the original.	
CreateArray		
Test Cases	Input	Output
	{1, 3, 4, 7}	{3, 9, 12, 21}

Problem 2	Given an array of size n as input. Create a new array of size n-1, where first element of original array is not there. Assume array of minimum 1 length.	
CreateArray1		
Test Cases	Input	Output
	{12, 10, 3, 4, 5}	{10, 3, 4, 5}
	{2, 5}	{5}

Problem 3	Given an array of size n as input. Create a new array of size n+1, where first element is 0, and rest elements are same as original array.	
CreateArray2		
Test Cases	Input	Output
	{5, 2, 1, 17}	{0, 5, 2, 1, 17}
	{1, 2, 3}	{0, 1, 2, 3}

Problem 4	Given an array of size n as input. Create a new array with double the size of original where the elements of first array are repeated one more time.	
CreateArray3		
Test Cases	Input	Output
	{4, 1, 7, 9}	{4, 1, 7, 9, 4, 1, 7, 9}
	{1, 2, 3}	{1, 2, 3, 1, 2, 3}

Problem 5	Given an array of size n as input. Create a new array with double the size of original where each element is duplicated.	
CreateArray4		
Test Cases	Input	Output
	{4, 12, 13, 16}	{4, 4, 12, 12, 13, 13, 16, 16}
	{1, 2, 3}	{1, 1, 2, 2, 3, 3}

Problem 6	Given an array as input. Shift all even elements to the top of the array.	
CreateArray5		
Steps	<p>1) Loop: Create a new array with size same as given array. Take two indices named 'index1' starting with 0 and 'index2' starting at length-1 position.</p> <p>2) Inside for loop: Extract each element of given array, if it is an odd element then enter it at 'index2' of new array and decrement 'index2'. If it is an even element then enter it at 'index1' of new array and increment 'index1'.</p>	
Test Cases	Input	Output
	{2, 7, 1, 3, 4}	{2, 4, 3, 1, 7}
	{9, 4, 5, 12, 13, 16}	{4, 12, 16, 13, 5, 9}