Name	Period
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1. The DivBySum class is intended to compute the sum of all the elements in an int array arr that are divisible by the int num. Consider the following examples,

arr	num	result	Explanation
{4, 1, 3, 6, 2, 9}	3	18	Result is 18
			which is the sum
			of 3, 6, and 9
{4, 1, 3, 6, 2, 9}	5	0	Result is 0
			since none of
			the integers are
			divisible by 5
{1, 3, 5, 8, 12, 27, 8}	2	28	Result is 28
			which is the sum
			of 8, 12, and 8

Complete the DivBySum class <u>using an enhanced for loop</u>. Assume that arr and num are properly declared and initialized. You must use an enhanced for loop to earn full credit.

public class DivBySum{

public static void main(String args[]){

} }

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2. The WordScrambler class, takes words from two different arrays, scrambles them, then stores the result in a new array. The words are scrambled by taking the first half of the word from arr1 and the second half of the word from arr2 and combining them. Below are examples,

array	word	half	combined
arr1	apple	ар	arap
arr2	pear	ar	

The scrambled words are then stored in a new array called result. Below is an example,

arr1	{"apple", "bear", "Timberline", "Thanksgiving"}
arr2	{"pear", "light", "school", "Friday"}
result	{"arap", "ghtbe", "ooltimbe", "thanksfri"}

Complete the WordScrambler class below. You may assume that arr1 and arr2 are the same size and have been declared and properly initialized.

public class WordScrambler{
public static void main(String args[]){

}

3. The FindValley class evaluates whether an array of integers has the *valley* property. An array of positive integers has the *valley* property if the elements are ordered such that successive values decrease until a minimum value (the minimum of the valley) is reached and then the successive values increase.

The following table illustrates the value assigned to valleyIndex for several integer arrays. In each case, if a valley is not found valleyIndex has a value of -1, otherwise it has the value of the first valley found.

arr	valleyIndex
{11, 22, 33, 22, 11}	-1
{11, 22, 11, 22, 11}	2
{11, 22, 33, 55, 77}	-1
{99, 33, 55, 77, 120}	1
{99, 33, 25, 77, 55}	2
{33, 22, 11}	-1

Complete the FindValley class below. You may assume that arr and valleyIndex are properly declared and initialized.

public class FindValley{

public class linuvalley(
<pre>public static void main(String args[]){</pre>	
}	
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Score _____