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The divBySum method is intended to return the sum of all the elements in the int array parameter arr that are divisible by the int parameter num. Consider the following examples, in which the array arr contains {4, 1, 3, 6, 2, 9}.

- The call divBySum(arr, 3) will return 18, which is the sum of 3, 6, and 9, since those are the only integers in arr that are divisible by 3.
- The call divBySum(arr, 5) will return 0, since none of the integers in arr are divisible by 5.

Complete the divBySum method using an enhanced for loop. Assume that arr is properly declared and initialized. The method must use an enhanced for loop to earn full credit.

/** Returns the sum of all integers in arr that are divisible by num * Precondition: num > 0 */ public static int divBySum(int[] arr, int num)

2. An array of String objects, words, has been properly declared and initialized. Each element of words contains a String consisting of at least 3 lowercase letters (a-z).

Write a code segment that uses an enhanced for loop to print all elements of words that end with "ing". As an example, if words contains {"ten", "fading", "post", "card", "thunder", "hinge", "trailing", "batting"}, then the following output should be produced by the code segment.

fading
trailing
batting

Write the code segment as described above. The code segment must use an enhanced for loop to earn full credit.

3. The Vocab class (**see handout**) contains methods used to analyze words in terms of their presence in a controlled vocabulary. You will write two methods of the Vocab class.

The countNotInVocab method returns an int that contains the number of words in its parameter wordArray that are not found in the instance variable theVocab.

A helper method, findWord, has been provided. The findWord method searches for an individual string in theVocab, returning true if an exact match between its String parameter and an element of theVocab is found, and returning false otherwise.

(a) Write the countNotInVocab method. Assume that there are no duplicates in wordArray. You must use findWord appropriately to receive full credit.

/** Counts how many strings in wordArray are not found in
theVocab, as described in
* part (a).
*/
public int countNotInVocab(String[] wordArray)

(b) Write the notInVocab method (**see handout**). Assume that there are no duplicates in wordArray. You must call findWord and countNotInVocab appropriately in order to receive full credit.

/** Returns an array containing strings from wordArray
not found in theVocab,
 * as described in part (b).
 */
public String[] notInVocab(String[] wordArray)

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