1) Write the word that best fits each definition below:

a. An instance variable that can be access by the class that it is declared in and derived classes, but nowhere else is __________

b. A method that has the same name in both a base class and a derived class is __________

c. A method that has the same name as another method, but has different parameters is __________

d. The input to a method is called a(n) __________

e. A variable whose value can't be changed is __________

f. A method that calls itself is __________

g. Grouping different but related pieces of data together, and possibly hiding their implementation from users is called __________

h. A variable that is available to all methods of an object is a(n) __________

i. A variable that is available to all objects of a specific class is a(n) __________
2) Write a recursive method that accepts two parameters: an integer array and an integer. It should return true if the integer exists in the array and false otherwise. Assume the array is unsorted.