Homework 4

Due April 11

There is a bookstore with two activities: sell books to customers and order new books from publishers. Write classes to implement the activities.

There are three classes:
public class book: describes each type of book

       Variables:
              private String bookname;
              private String author;
              private double price;
              private int number;
      Methods:
              public book(String bn, String au, double p, int n): constructor
              public boolean out_b(int n): decreases number of copies of the book by n
                    Note: if number < n, return false. Else return true.
              public void in_b(int n): increase the number of copies of the book by n
              public String get_bn(): get the bookname (title) of the book
              public void print_all(): print out all information about the book

public class bookstore: describe the sales and ordering

       Variables:
              private book [] booklist = new book[10];
                    Note: the store has at most 10 copies of a book
              private int used;
                    This tells how many different book titles are in the store.
      Methods:
              public bookstore(): constructor, initialize the bookstore
              public void sell(String bn, int n): sell n copies of book with title bn.
                  If this succeeds, print out the information.
                  If you can not find the book, print out: "we don't have this book".
              public void order(String bn, String au, double p, int n):
                  Order n copies of a book
              public void print_bs(): print out information for all books in store

test class: this will be given to you