Java Programming

Homework 7

Using a Random Access File, complete the following:

Write a program that manipulates a database of product records. Records are stored in a binary file. Each record consists of these items:

- Product name: 30 characters at two bytes each = 60 bytes
- Price: one double = 8 bytes
- Quantity: one int = 4 bytes
- The program should allow the user to add a record, find a record that matches a product name, and change the price and quantity of a product by a given amount.
- Provide a menu with options
  - "A)dd record F)ind record Change P)rice Change Q)uantity E)xit:"
- The program should not file on invalid input, IOExceptions, etc…
- **DO NOT** store the records in a data structure (if you read all the records at one time and manipulate them in memory – you will not receive credit for the assignment). The goal is to be able to use Random Access Files ! You should use a random access file to read / write with each operation.
- Create a Product class, A Product DAO class, and a class for your main method.
- Save your products in products.dat

Required Documentation

You will need two test cases for each option. Include your .dat output file, along with screenshots of the application running showing each option.

Submitting your Program

You will submit this assignment on blackboard. You are allowed one submission. You will need to submit your .java file and your documentation in a word (.docx) file.