Inheritence

Question:

A super class Record has been defined to store the names and ranks of 50 students. Define a sub class Rank to find the highest rank along with the name. The details of both classes are given below:

Class name : Record

Data Members / instance variables:

name[ ] : to store the names of students

rnk[ ] : to store the ranks of students

Member functions:

Record() : constructor to initialize data members

voidreadvalues() : to store names and ranks

void display() : displays the names and the corresponding ranks

Class name : Rank

Data Members / instance variables:

index : integer to store the index of the topmost rank

Member functions

Rank() : constructor to invoke the base class constructor and to initialize index to 0.

void highest() : finds the index location of the topmost rank and stores it in index without sorting the array 6

void display() : displays the name and ranks along with the name having the topmost rank.

Specify the class Record giving details of the constructor(), void readvalues(), void display(). Using the concept of inheritance, specify the class Rank giving details of constructor(), void highest() and void display().