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import java.io.*;
import java.util.ArrayList;

public class UserData {
      private ArrayList<User> users = new ArrayList<User>();
      private User currentUser;
      private File file = new File("data.save");
      private boolean isLogin = false;

      public UserData() {
            InputStreamReader read;
            try {
                  read = new InputStreamReader(new FileInputStream(file));
                  BufferedReader bufferedReader = new
BufferedReader(read);
                  String lineT = null;
                  while ((lineT = bufferedReader.readLine()) != null) {
                        String[] str = lineT.split(" ");
                        User userReg = new User(str[0], str[1]);
                        userReg.setScore(Integer.parseInt(str[2]));
                        users.add(userReg);
                  }
            } catch (FileNotFoundException e) {
                  e.printStackTrace();
            } catch (NumberFormatException e) {
                  e.printStackTrace();
            } catch (IOException e) {
                  e.printStackTrace();
            }
      }

      public void saveScore(int score) {
            try {
                  FileWriter fileWriter = new FileWriter(file);
                  BufferedWriter bufferWriter = new
BufferedWriter(fileWriter);
                  for (User user : users) {
                        if (user.getUserName() ==
currentUser.getUserName()) {
                              if (user.getScore() < score)
                                    user.setScore(score);
                        }
                        bufferWriter.write(user.getUserName() + " " +
user.getPassword() + " " + user.getScore() + "\n");
                  }
                  bufferWriter.close();
                  fileWriter.close();
            } catch (IOException e) {
                  e.printStackTrace();
            }
      }

      public String getName(int index) {
            return users.get(index).getUserName();
      }

      public User[] getList() {
        ArrayList<User> usersTemp = users;
        for (int i = 0; i < usersTemp.size() - 1; ++i) {
            for (int j = i; j < usersTemp.size() - 1 - i; ++j) {
                if (usersTemp.get(j).getScore() < usersTemp.get(j
+ 1).getScore()) {
                    User temp = usersTemp.get(j);
                    usersTemp.set(j, usersTemp.get(j + 1));
                    usersTemp.set(j + 1, temp);
                }
            }
        }
        int rankSize = usersTemp.size() <= 10 ? usersTemp.size() :
10;
        User[] userList = new User[rankSize];
        for (int i = 0; i < rankSize; i++)
            userList[i] = usersTemp.get(i);
        return userList;
    }

    public boolean register(User user) {
        for (User u : users)
            if (u.getUserName().equals(user.getUserName())) {
                return false;
            }
        try {
            users.add(user);
            FileWriter fileWriter = new FileWriter(file, true);
            BufferedWriter bufferWriter = new
BufferedWriter(fileWriter);
            bufferWriter.write(user.getUserName() + " " +
user.getPassword() + " " + user.getScore() + "\n");
            bufferWriter.close();
            fileWriter.close();
        } catch (IOException e) {
            e.printStackTrace();
        }
        return true;
    }

    public boolean login(String userName, String password) {
        boolean flag = false;
        for (User user : users) {
            if (userName.equals(user.getUserName()) &&
password.equals(user.getPassword())) {
                flag = true;
                currentUser = user;
                isLogin = true;
                break;
            }
        }
        return flag;
    }

    public boolean isLogin() {
        return isLogin;
    }
}
```