

list 1:

```
package com.fresco;
import java.text.DecimalFormat;
import java.util.ArrayList;

public class ScoreList<T> {
    ArrayList<T> arrayList = new ArrayList<>();

    public void addElement(T element){
        arrayList.add(element);
    }
    public void removeElement(T element){
        arrayList.remove(element);
    }
    public T getElements(int index){
        return arrayList.get(index);
    }
    public double averageValues(){
        double total =0;
        for(int i =0 ; i< arrayList.get(i));{
            total +=((Double)arrayList.get(i));
        }
        return total/arrayList.size();
    }
}
```

list 2

```
package com.fresco;

import java.util.*;
public class StudentList<T> {

    ArrayList<T> arrayList = new ArrayList<>();

    public void removeElement(T element){
        arrayList.add(element);
    }
    public void removeElement(T element){
        arrayList.remove(element);
    }
    public T getElemnt(int index){
        return arraryist.get(index);
    }
    public String beginsWith(String str){
        StringBuilder sb = new StringBuilder();
        String lineBreak ="\n";
        for (int i= 0 ; i<arrayList.size() ; i++){
            String x = (String)arrayList.get(i);
            if (x.toLowerCase().startsWith(str.toLowerCase())){
                sb.append(x);
                sb.append(lineBreak);
            }
        }
        return sb.toString();
    }
}
```

```

public String bloodGroupOf(String[] arr, String str){
    StringBuilder output =new StringBuilder();
    String lineBreak ="\n"
    for (int i =0 ; i< arr.length ; i++){
        if (arr[i].equal(str)){
            output.append((String)arrayList.get(i));
            output.append(lineBreak);
        }
    }

    return output.toString();
}

public int thresholdScore(int score){
    int count = 0;
    for(int i =0; i<arrayList.size() ; i++){
        if(((Integer)arrayList.get(i))>=score){
            count++;
        }
    }
    return count;
}
}

```

class

```

package com.fresco;

import java.text.DecimalFormat;

public class StudentClass {

    public String getQuery(String studentData,String query){
        DecimalFormat df = new DecimalFormat("#.00");

        switch(query.charAt(0)){
            case '1':
                String firstChar = query.split(",")[1];
                String[] students = studentData.split(" ");
                StudentList<String> studentList = new studentList<String>();
                for (String student : students){
                    studentList.addElement(student);
                }
                return studentList.beginWith(firstChar);
            case '2':
                String[] bloodGroups = query.split(",")[1].split(" ");
                String reqBloodGroup = query.split(",")[2];
                StudentList<String> studentData.split(" ");
                String[] students2 = studentData.split(" ");
                for(String student: students2){
                    studentList2.addElement(student);
                }
            }
        }
    }
}

```

```

        return studentList2.bloodGroupOf(bloodGroups, reqBloodGroup);
    case '3':
        String threshold = query.split(",")[1];
        StudentList<Integer>scoreList = new StudentList<>();
        String[] score = studentData.aplit(" ");
        if ( score: scores){
            reList.addElement(Integer.parseInt(score));

            String.valueOf(scoreList.thresholdScore(Integer.parseInt(threshold)))+ "
students scored " + threshold+ "above";
            st<Double> scoreList = new List<>();
            ] gpaArr = studentData.split(" ");
            ing gpa: gpaArr){
                s.addElement(Double.parseDouble(gpa));
                String.valueOf(df.format(gpas.averageValue()));
            }

        }
    }
    return null;
}
}
}

```

This study resource was  
shared via CourseHero.com