

Hyatt IQ Level

Grade settings: Maximum grade: 100

Disable external file upload, paste and drop external content: Yes

Based on: [Hyatt IQ Level](#)

Run: Yes **Evaluate:** Yes

Automatic grade: Yes

In the city, "**Hyatt**" is a well-known teaching platform organization. They held the event to test the participants' IQ levels, and many of them took part. They now want to find the participant's IQ level based on the participant's name and filter the participant with the highest IQ level. The manager contacts a software developer to assist them with their process. As a software developer, you must create a Java program based on the requirements.

Component Specification: ParticipantInfo Class

Type (Class)	Attributes	Methods
ParticipantInfo	private Map<String, Integer> participantMap	Getter and setter methods for the attribute are included in the code skeleton.

Note: Here the *participantMap*, holds the Key as *participantName* and Value as *iQLevel*.

Requirement 1: Find the iQLevel of the participant.

Type (Class)	Methods	Responsibilities
ParticipantInfo	public int findTheIQLevelforGivenParticipantName (String participantName)	<p>This method accepts <i>participantName</i> as an argument. If the <i>participantName</i> is found in the Map, return their <i>iQLevel</i>. Else return -1.</p> <p>Condition:</p> <p><i>participantName</i> is a case insensitive.</p>

Requirement 2: Find the participants with the highest IQ level.

Type (Class)	Methods	Responsibilities
ParticipantInfo	public List<String> findTheHighestIQLevel()	This method finds the participants with the highest IQ level, adds it to the list and returns the list.

You are provided with the main method as code template and it is excluded from evaluation.

Note:

- In the Sample Input / Output provided, the highlighted text in bold corresponds to the input given by the user, and the rest of the text represents the output.
- Ensure to follow the object-oriented specifications provided in the question description.
- Ensure to provide the names for the classes, attributes, and methods as specified in the question description.
- Adhere to the code template, if provided.

Sample Input/Output 1:

Enter number of records to be added:

6

Enter the participant records (Participant name:IQ level):

Wade:89

Dave:90

Seth:40

Ivan:74

Riley:80

Gilbert:68

Enter the participant name to be searched

Ivan

74

Participant name with the highest IQ level are:

Dave

Sample Input/Output 2:

Enter number of records to be added:

6

Enter the participant records (participant name:IQ level):

Wade:89

Dave:90

Seth:40

Ivan:74

Riley:90

Gilbert:68

Enter the participant name to be searched

John

John is an invalid participant name

Participant name with the highest IQ level are:

Dave

Riley

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File List Save Compile & Run Evaluate Reset Restore Description

File list
HyattIQLevel
src
Participant

ParticipantInfo.java

```
1 import java.util.Scanner;
2 import java.util.Map;
3 import java.util.List;
4 import java.util.ArrayList;
5 import java.util.Collections;
6 import java.util.HashMap;
7
8 public class ParticipantInfo {
9
10     private Map<String, Integer> participantMap;
11
12     public Map<String, Integer> getParticipantMap() {
13         return participantMap;
14     }
15
16     public void setParticipantMap(Map<String, Integer> participantMap) {
17         this.participantMap = participantMap;
18     }
19
20     public int findTheIQLevelforGivenParticipantName(String participantName)
21     {
22         // Fill the code
23         return 0;
24     }
25
26
27     public List<String> findTheHighestIQLevel()
28     {
29         // Fill the code
30         return null;
31     }
32
33     public static void main(String args[])
34     {
35         //You are provided with the main method as code template and it is excluded from evaluation.
36         ParticipantInfo participant=new ParticipantInfo();
37         List<String> list1=new ArrayList<String>();
```

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File List Save Compile & Run Evaluate Reset Restore Description

File list
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```
24
25 }
26
27 public List<String> findTheHighestIQLevel()
28 {
29     // Fill the code
30     return null;
31 }
32
33 public static void main(String args[])
34 {
35     //You are provided with the main method as code template and it is excluded from evaluation.
36     ParticipantInfo participant=new ParticipantInfo();
37     List<String> list1=new ArrayList<String>();
38     Map<String, Integer> map=new HashMap<String,Integer>();
39     Scanner sc=new Scanner(System.in);
40     System.out.println("Enter number of records to be added:");
41     int n=sc.nextInt();
42     System.out.println("Enter the participant records (Participant name:IQ level):");
43     String [] participantDetails = new String[n];
44     sc.nextLine();
45     for(int i=0;i<n;i++) {
46         participantDetails[i] = sc.nextLine();
47     }
48
49     for(int i=0;i<participantDetails.length;i++) {
50         String[] a = participantDetails[i].split(" ");
51         map.put(a[0], Integer.parseInt(a[1]));
52
53         participant.setParticipantMap(map);
54     }
55     System.out.println("Enter the participant name to be searched");
56     String search=sc.nextLine();
57     int value=participant.findTheIQLevelforGivenParticipantName(search);
58     if(value!=-1)
59     {
60 }
```

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File List Save Compile & Run Evaluate Reset Restore Description

File list

HyattIQLevel

src

ParticipantI

ParticipantInfo.java

```
40 System.out.println("Enter number of records to be added:");
41 int n=sc.nextInt();
42 System.out.println("Enter the participant records (Participant name:IQ level):");
43 String [] participantDetails = new String[n];
44 sc.nextLine();
45 for(int i=0;i<n;i++) {
46     participantDetails[i] = sc.nextLine();
47 }
48
49 for(int i=0;i<participantDetails.length;i++) {
50     String[] a = participantDetails[i].split(":");
51
52     map.put(a[0], Integer.parseInt(a[1]));
53
54     participant.setParticipantMap(map);
55 }
56 System.out.println("Enter the participant name to be searched");
57 String search=sc.nextLine();
58 int value=participant.findTheIQlevelforGivenParticipantName(search);
59 if(value!=-1)
60 {
61     System.out.println(value);
62 }
63 else
64 {
65     System.out.println(search+" is an invalid participant name");
66 }
67 list1=participant.findTheHighestIQlevel();
68
69 System.out.println("Participant name with the highest IQ level are:");
70 for(String s:list1)
71 {
72     System.out.println(s);
73 }
74
75
76 }
```