Hyatt IQ Level

Grade settings: Maximum grade: 100

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

Based on: <u>Hyatt IQ Level</u> **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	Inrivate Man/String	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
		This method
		accepts
		participantName
		as an argument. If
		the
		participantName i
		s found in the
ParticipantInf	public int findTheIQLevelforGivenParticipantName(St	Map, return
0	ring participantName)	their iQLevel.
		Else return -1.
		Condition:
		participantName
		is a case
		insensitive.

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

Type (Class)	Methods	Responsibilities
ParticipantInfo	public List <string> findTheHighestIQLevel()</string>	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 Inp	ut/Ou	put 1:
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Enter number of records to be added:

6

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

Wade:89

Dave:90

Seth:40

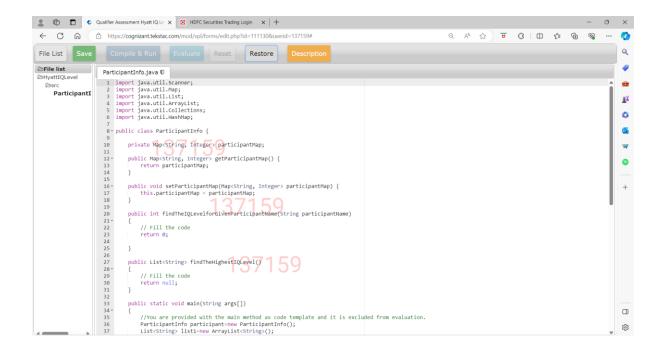
Ivan:74

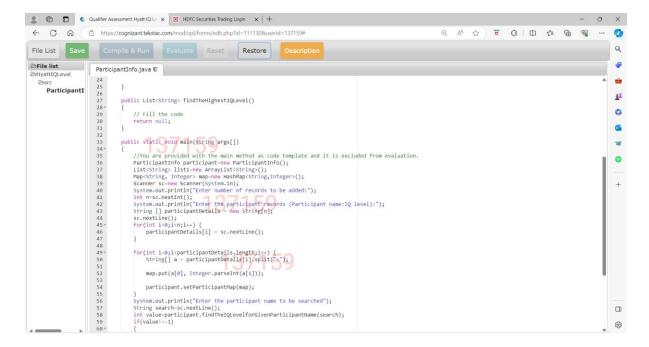
Riley:80

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
                                                        Evaluate Reset Restore Description
                                           system.out.println("inter number of records to be added:");
int n-sc.nextInt();
system.out.println("inter the participant records (Participant name:IQ level):");
string [] participantDetails = new String[n];
sc.nextLine();
for(int i=0;i:n;i++) {
   participantDetails[i] = sc.nextLine();
}
                                                                                                                                                                                                                                                  •
  ParticipantInfo.java 

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                                           for(int i=0;i<participantDetails.length;i++) {
   String[] a = participantDetails[i].split(":");</pre>
                                                                                                                                                                                                                                                  •
                                               map.put(a[0], Integer.parseInt(a[1]));
                                               participant.setParticipantMap(map);
                                            participant.setParticipantMap(map);
System.out.println("Enter the participant name to be searched");
String search-sc.nextline();
int value-participant.findTheTQLevelforGivenParticipantName(search);
if(value|--1)
                                                 System.out.println(value);
                                           System.out.println("Participant name with the highest IQ level are:"); for(String s:list1) \,
                                                System.out.println(s);
                                                                                                                                                                                                                                                 (3)
```