Real Champions Academy

Grade settings: Maximum grade: 100

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

Based on: Real Champions Academy

Run: Yes Evaluate: Yes Automatic grade: Yes

"Real Champions" is the city's well-known sports academy. They had held a 1000-meter running race, and many of the players had taken part in it. They wanted to find the time taken by the participant for a given participant name, as well as the participant who took the shortest time to complete the race. The event coordinator contacts a software developer to assist them in their process. As a software developer, you must create a Java program based on the requirements.

Component Specification: ParticipantInfo Class

Type (Class)	Attributes	Methods
Particinantinto	private Map <string,< th=""><th>Getter and setter methods for the attribute are in</th></string,<>	Getter and setter methods for the attribute are in
	Integer> participantMap	skeleton.

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

Requirement 1: Find the time taken for the given participant name.

Type (Class)	Methods	Responsibilities
ParticipantInfo		This method accepts participal argument. If the participantNa Map, return the timeTaken by return -1. Condition: participantName is a continuous continu
		• participantName i

Requirement 2: Filter the participantMap who finished the race in the shortest time.

Type (Class)	Methods	Responsibilities
ParticinantInto	public List <string> findTheParticipantWithTheShortestTime()</string>	This method filters the pa took the shortest time to f

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 / Outpu	t 1	:
----------------------	-----	---

Enter number of records to be added:

5

Enter the participant records (Participant name:TimeTaken in seconds):

Miny:138

Teenu:126

Jack:145

Dave:120

Shery:156

Enter the participant name to be searched

Jack

145

Participant name with the shortest time taken:

Dave

Sample Input / Output 2:

Enter number of records to be added:

4

Enter the participant records (Participant name:TimeTaken in seconds):

Minu:138

Tiny:126

Stew:126

Dane:128

Enter the participant name to be searched

Jin

Jin is an invalid participant name

Participant name with the shortest time taken:

Stew

Tiny

```
Cousier Assessment Real Charm. x + C C Cousier Assessment Real Charmolands. Charmol
```



