

Table Of Contents

- [Table Of Contents](#)
- [Startdocument for 8. Contribution](#)
 - [Problem Description](#)
 - [Input & Output](#)
 - [Input](#)
 - [Output](#)
 - [Calculations](#)
 - [Remarks](#)
 - [Class Diagram](#)
 - [Test Cases](#)

Startdocument for 8. Contribution

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Problem Description

The following rules are operated to calculate the annual contribution to a sports club: Senior members pay € 150,-, junior members pay € 75,-. Senior members are people aged 18 or above. Playing members also pay a € 45,- association contribution. People who have been members for more than 7 years are given a 5% discount on the club contribution. A program must be developed in which the name, date of birth and date of joining the club (format ddmmyyy) of each member can be entered, and also whether the member is a playing or non-playing member. The contribution of each member must be calculated and shown. The cumulative total contribution, the average number of years of membership and the youngest member must also be shown.

Input & Output

In this section the in- and output of the application will be described.

Input

In the table below all the input are described.

Case	Type	Conditions
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Case	Type	Conditions
Name	string	not empty
Date of Birth	Date	dd/mm/yyyy
Date of joining The Club	Date	dd/mm/yyyy
Playing or Non-Playing	Boolean	True or False

Output

Case	Type
Individual Contribution	Member + float
Total Contribution	float
Average Years of Membership	Float
Youngest Member	Member

Calculations

Case	Calculation
Individual Contribution	Calculate the contribution for an individual member.
Total Contribution	Calculate the total contribution for each member.
Average Years of Membership	Calculate the average number of years of membership.
Youngest Member	Calculate the youngest member.

Remarks

In the diagram I decided to display only the essential methods to the user.

Class Diagram

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