



!All are well

We want to design a system for the welfare of the people of a university.

In this system, we have a single person class that has the following characteristics:

1. first name and last name
۲. National Code
۳. gender
۴. Income (this attribute is initially zero and is not received in the constructor)

This class has a parameterizable constructor and the following functions.

1. Salary calculation function: explained.
۲. Tax calculation function: Explained.
۳. Payroll function: Deducts tax from salary and adds it to income.
۴. Cost function: Removes a certain amount of money from income.

Also, people in this system are divided into several categories:

1. **Student:** In addition to the characteristics of a person, this person also has a student number.
No rights are given to this person. Therefore, there is no tax. But in the beginning, it will be built



▼ Questions

50

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Abstract Cache

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Challenge: Encapsulation?
!Are you kidding

All submissions

Final submissions

Scoreboard

with an income of 500,000 tomans.

۲. **Professor:** In addition to the characteristics of a person, this person has a professor's code, the amount of teaching hours per week, and the professor's rank. The salary of this person is calculated as follows: Consider the salary base of a trainer, 3,000,000 Tomans, an assistant professor, 4,000,000 Tomans, an associate professor, 5,000,000 Tomans, and a full professor, 6,000,000 Tomans. The salary is equal to the base salary plus 150,000 Tomans per hour of teaching per week. The tax collected from professors is 10%.

۳. **Employee:** In addition to the characteristics of a person, this person has a personnel code and a legal base. This person is paid according to their salary base and pays 15% tax.

۴. **Hourly employee:** In addition to the characteristics of an employee, this employee also has the number of working hours per week. Consider the salary base of this employee to be zero. The salary of this employee is 100,000 Tomans per hour. His tax is the same as a regular employee.

۵. **Working student:** This student doing student work has all the characteristics of a student and an hourly employee. Consider his personal code equal to his student number. The salary of this student is 30,000 per hour. This person also does not pay taxes.

Implement the above classes by adopting the appropriate structure. Note that all classes have the appropriate parameterizable constructor.

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