

Name: _____

Read carefully the problem, then identify the important parts, make a **model**, and a **flow chart**. Remember to describe all the passages that brings you to give a certain answer (why a certain value is an input, where you found information on the data type, why you made a certain choice, etc...).

In Italy physical people pay taxes proportionally to their annual incomes. Each person is in a certain income class and pays a certain percent of the income as taxes. the income class and the relative taxes are expressed in the table:

Income class	Class range	Quote for the class	Tax
1	0€ - 15000€	23%	23% of income
2	15000.01€ - 28000€	27%	3450€ + 27% of the excess from 15000€
3	28000.01€ - 55000€	38%	6960€ + 38% of the excess from 28000€
4	55000.01€ - 75000€	41%	17220€ + 41% of the excess from 55000€
5	more than 75000€	43%	25420€ + 43% of the excess from 75000€

For instance if you earn 10000€ you are in the 1th class, and you pay on taxes:

$$\frac{10000}{100} \cdot 23,$$

if you earn 30500€ you are in the 3th class, and you pay on taxes:

$$6960 + \frac{30500 - 28000}{100} \cdot 38,$$

if you earn 100000€ you are in the 5th class, and you pay on taxes:

$$25420 + \frac{100000 - 75000}{100} \cdot 43.$$

Write a program that calculate how much you need to pay in taxes, given your income in input.