



## Votre voix est importante !!!

### Etre délégué c'est quoi ????

- ✦ Faire entendre la voix des étudiants (2-3 réunions par an)
- ✦ Participer à l'amélioration des programmes d'étude, du cadre, ...
- ✦ Etre initiateur d'activités festives ou extra académiques (concours, banquets, ...)

### En équipe on est fort !!!

Le délégué n'est pas seul il pourra compter sur ses camarades et être épaulé par l'équipe pédagogique et facultaire.

Les candidatures sont attendues au plus vite ... disons à la fin du cours ;-)  
ou par mail [vanessa.maons@uclouvain.be](mailto:vanessa.maons@uclouvain.be)



The word "QUIZ" is displayed in a stylized, blocky font. Each letter is contained within a colored rectangular box: 'Q' is red, 'U' is yellow, 'I' is red, and 'Z' is yellow. The boxes are slightly offset from each other, creating a staggered effect.

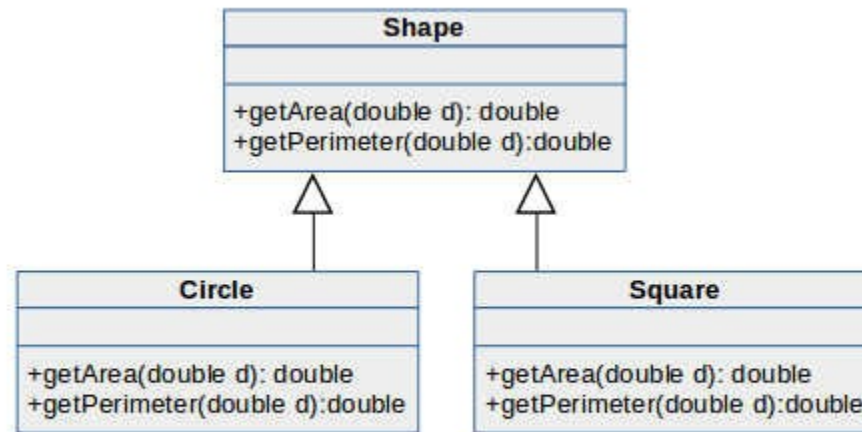
- For LEPL1402, **November 4th, remotely**, from 16h15 to 18h15 (+40' for PEPS students).
- For LSINC1402 (Charleroi), it will be on November 9th, on site, starting at 13h30.
- There will be two questions, each graded on 1 point.

Some remarks:

- The INGINIOUS links will be communicated at the start of the exam
- It is, of course, forbidden to collaborate with other students (all communications are forbidden, discord, etc).
- You are encouraged to use IntelliJ (do **not** program in INGINIOUS). Make sure your IntelliJ is working fine and that you are able to open a project, run test, debug, etc BEFORE the quiz.
- We will answer your questions during the quiz using Teams.
- Technical questions to prepare the quiz can be asked on the INFO2Overflow forum on Moodle.



## (1) Abstract class



Inheritance – “is-a” relationship

*NB: “d” stands for “dimension”  
(it is the radius for Circle and the side length for Square)*



## (2) Inheritance: Fill the gaps



Will you be able to fill the gaps inside these three source files ( [Animal](#) , [Cat](#) , [SuperCat](#) ) so that it compiles and passes our tests ?

You can download the [IntelliJ Project](#) that contains few tests to help you.



### (3) Comparator vs. Comparable

In this exercise, you have to answer questions about [Comparator](#) and [Comparable](#).

We are going to work on the [Plant](#), [Tree](#), [Flower](#) and [Sorter](#) classes. Read and understand the code in these classes before doing this exercise!

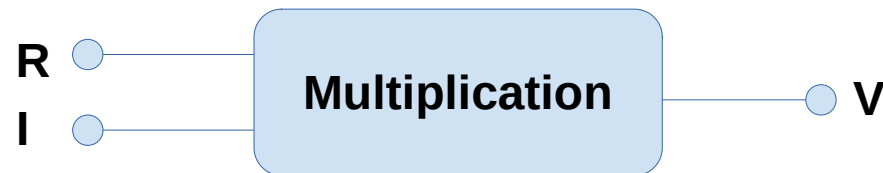
All the information on how the different methods should work are given in comments in each class.

In the code, when we write "in that order", we mean that you must first sort in function of the first criterion, and in case of equality, sort in function of the second, and so on.



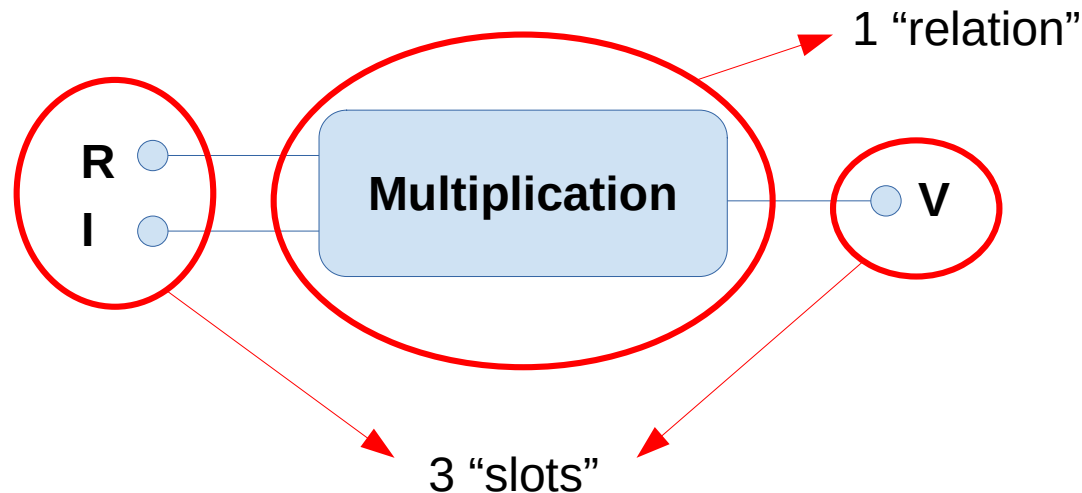
## (4) Physics solver

How to solve physics relations (e.g.  $V = R \cdot I$  and  $P = I \cdot V$ ),  
given an arbitrary set of parameters?



### (4) Physics solver

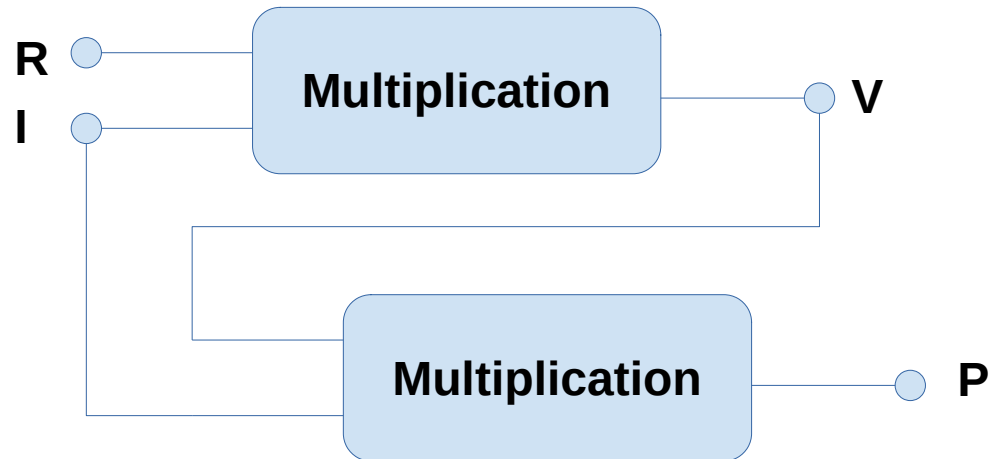
How to solve physics relations (e.g.  $V = R \cdot I$  and  $P = I \cdot V$ ), given an arbitrary set of parameters?



*A slot can have a value or be undefined*



## Chaining relations



*The physics solver iterates until stabilization*

