

OCL

Lab support material

Where do we start?

- If you have not done it yet, download USE (get link from MOODLE)
- Model a class diagram with USE
 - Use a common text editor for this
 - You have a small example in the end of the lecture slides for the syntax
 - You also have a few snippets to get you started (see next slides)
 - You also have USE's official documentation on the USE web site
- Finally, add the OCL constraints

FOLDERS

▼ CienciaViva

▶ Backup

▶ old

adivinha.py

condicoes.py

consumo.py

Dinossauros.py

Ecuador

exemplo.py

pedra.py

README.md

Marriage.use

Sudoku.use

Aeroporto.use

```
1 model Aeroporto
2
3 -- classes
4
5 class Airline
6   attributes
7     name : String
8     profitRate: Real
9   end
10
11 class Flight
12   attributes
13     cost : Real
14     number : Integer
15   operations
16     addPassenger(p: Passenger)
17   end
18
19 class Aircraft
```

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pedra.py

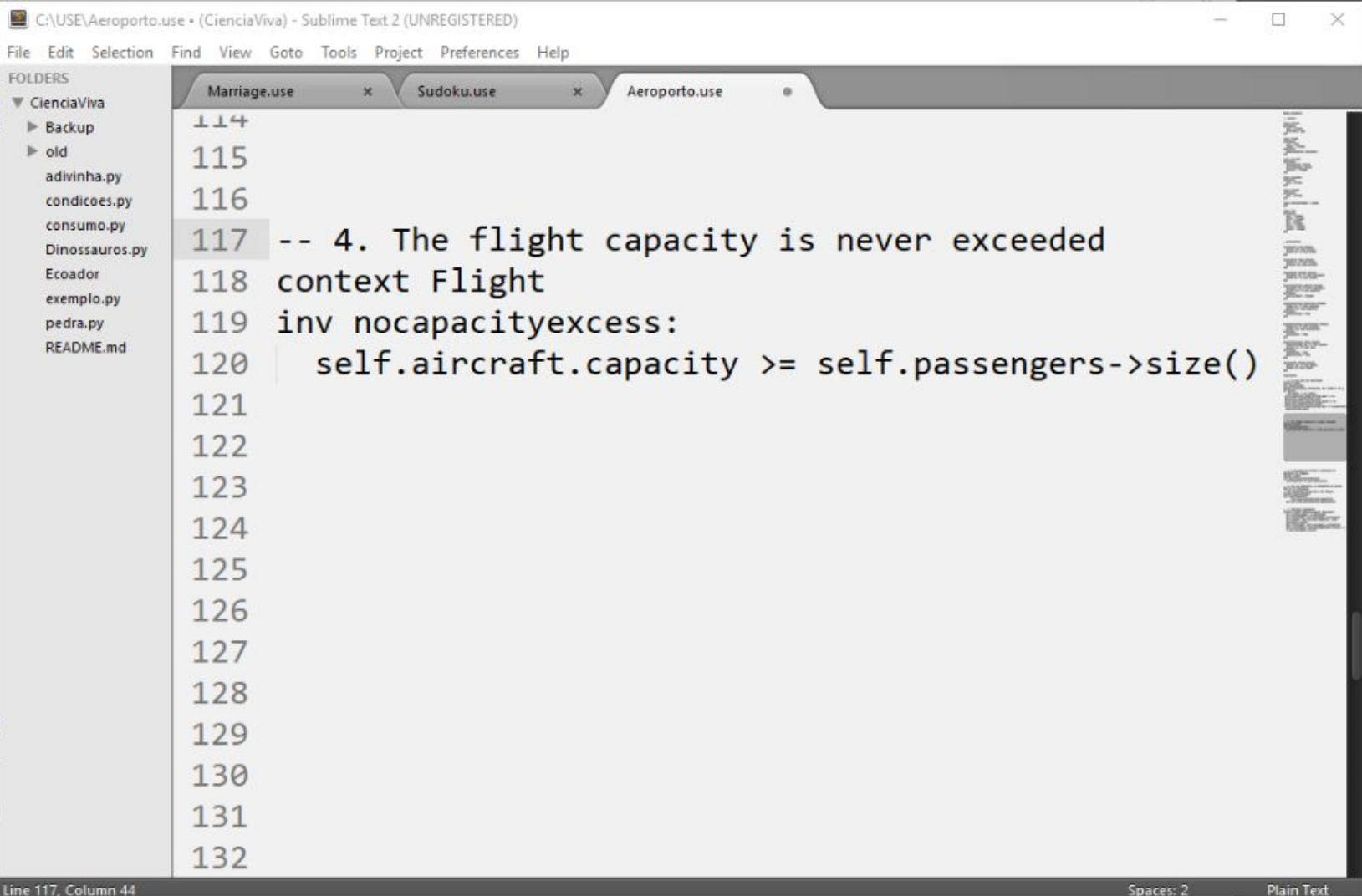
README.md

Marriage.use

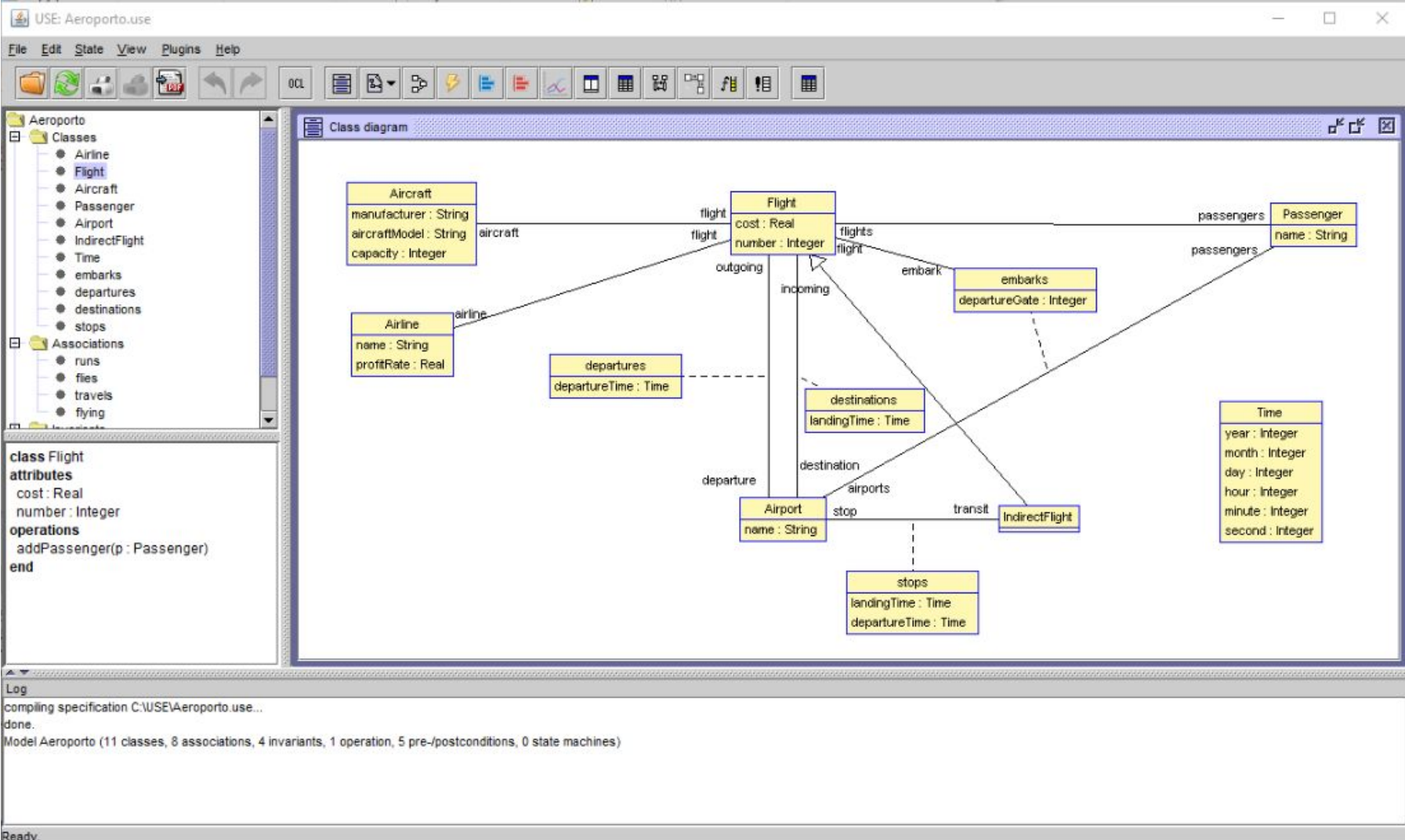
Sudoku.use

Aeroporto.use

```
58 association flies between
59     Flight [1..*] role flight
60     Aircraft [1] role aircraft
61 end
62
63 association travels between
64     Passenger [0..*] role passengers
65     Flight [1..*] role flights
66 end
67
68 associationclass embarks between
69     Passenger [0..*] role passengers
70     Airport [1..*] role airports
71 attributes
72     departureGate : Integer
73 end
74
75 associationclass departures between
76     Flight [0..*] role outgoing
```



A model for the airport example



A model for the SUDOKU problem

