
1- Install IBM CPLEX Optimization Studio on your computer

CP Optimizer is one of the tools available in
IBM CPLEX Optimization Studio.

A free version of IBM CPLEX Optimization Studio is available
thanks to the IBM Academic Initiative program.

The ESIEE is part of this program so if you use your ESIEE email
address to access it, you should be able to download
IBM CPLEX Optimization Studio.

Please do not forget tou use your ESIEE email address,
not your personal one.

Go to in order to create an account: https://www.ibm.com/academic

You will probably also have to create an IBM ID (here also, please use
your ESIEE email)

Once you are connected to the Academic Initiative page,
Select "Technology -> Data Science" from the top menu.

Then "Software" and in "ILOG CPLEX Optimization Studio",
select "Download v12.10"

Then select the version depending on your Operating System
(Windows, Linux, Mac):

- IBM ILOG CPLEX Optimization Studio V12.10 for Windows x86-64 Multilingual
- IBM ILOG CPLEX Optimization Studio V12.10 for Linux x86-64 Multilingual
- IBM ILOG CPLEX Optimization Studio V12.10 for OSX Multiplatform Multilingual

Then you can install the downloaded installer just by clicking on it and
follow the instructions.

2- Install Python (if not installed on your machine)

3- Install the public Python API for IBM CPLEX Optimization Studio

> pip install docplex

4- Download the directory containing material for the workshop

An archive is available here (Workshop-13-Oct-2020.zip):
https://home.thomas.baudel.name/nextcloud/index.php/s/mtcQ5KPsLTfXc7k

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5- Try Python

> cd Workshop-13-Oct-2020/V0
> python gift_production.py

You should see something happening until a window that
displays a schedule opens ...

6- [Optional] Try Notebook

> cd Workshop-13-Oct-2020/NoteBooks
> jupyter notebook

You can select one of the Notebooks in the browser
(GiftProduction, SingleMachine, Sudoku) and try to execute it.