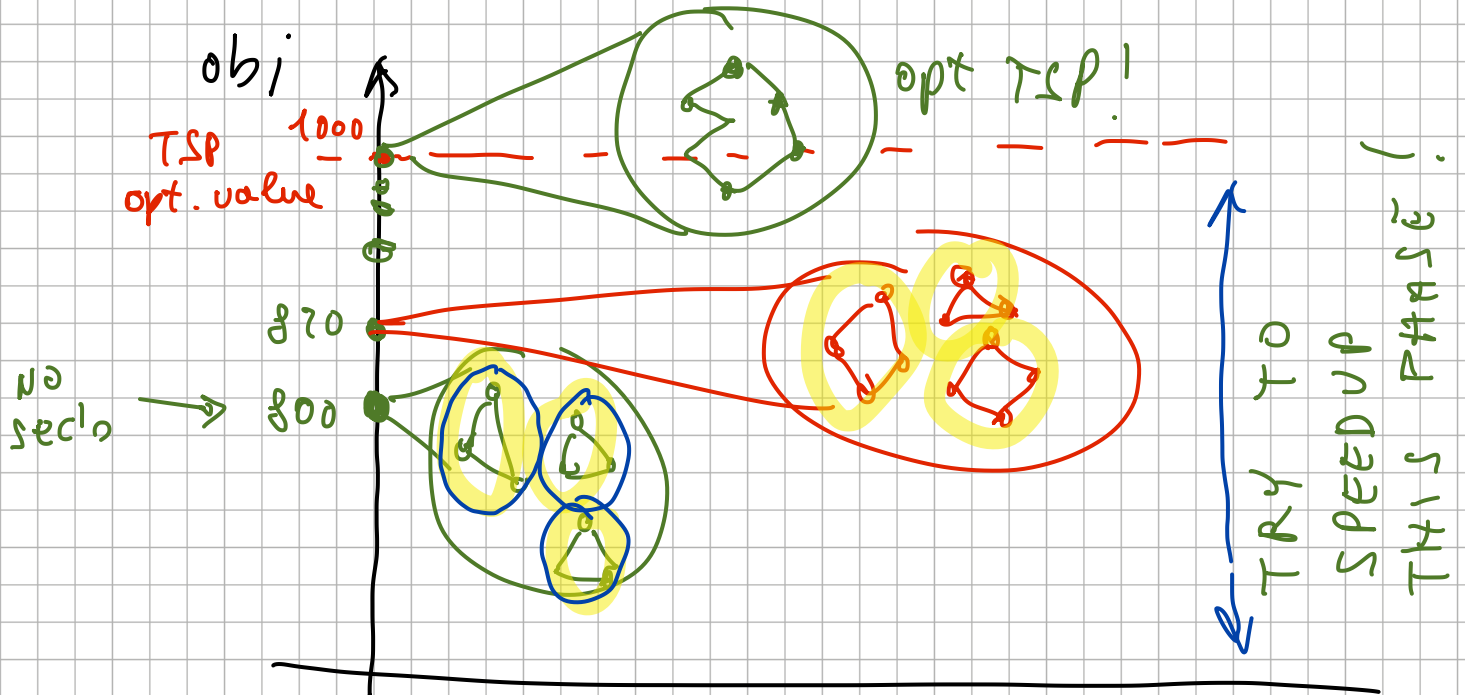


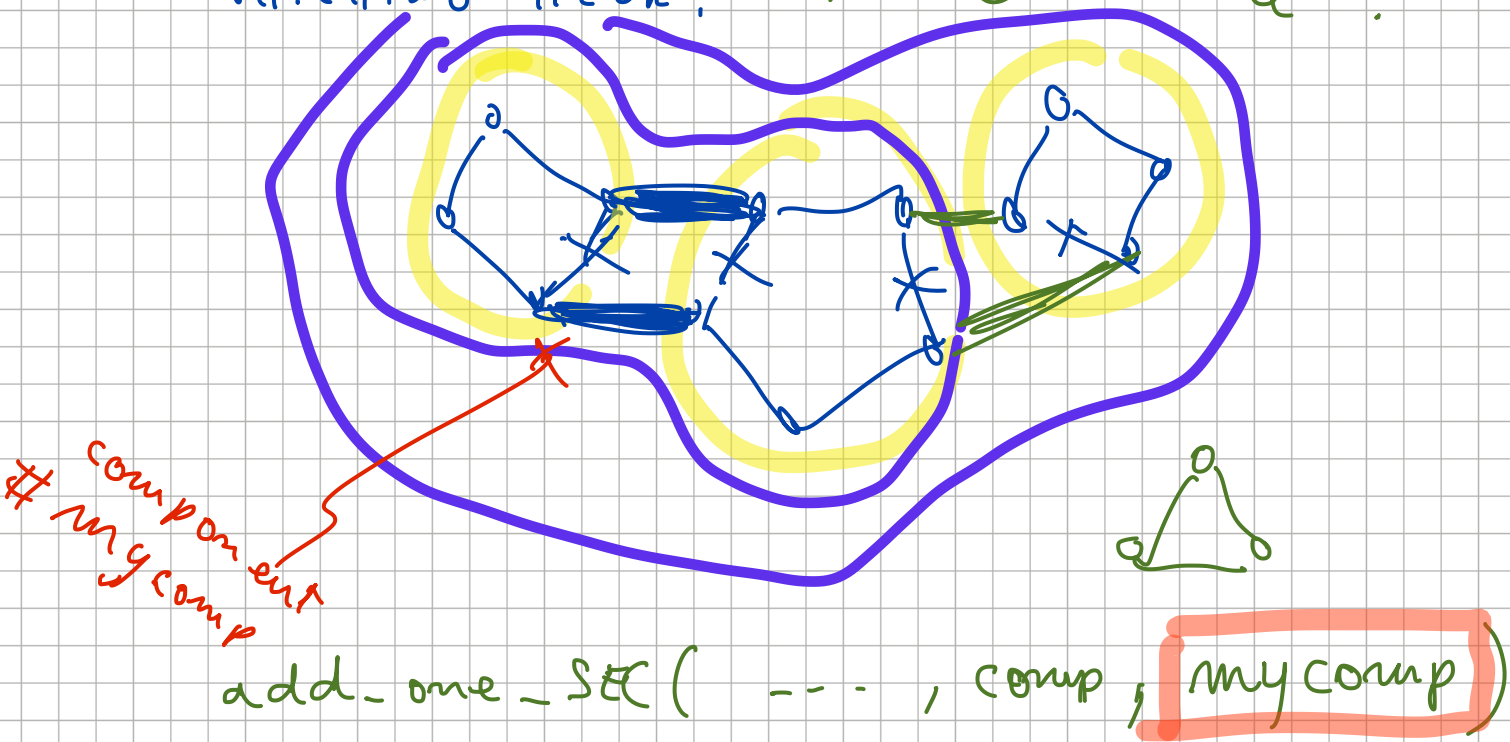
ORZ

27-apr-2022

BENDERS' LOAD METH.



PATCHING HEUR. ⇒ new SEC's available!



➔ only add the SEC associated with component # mycomp

Benders' loop

while ($LB \leq \overset{\text{best value TSP}}{UB} \neq 0.9999$)

inst \rightarrow best-value

CUTOFF \rightarrow

`Cpx setdblparam (env, lp, CPX_PARAM_CUTUP, UB)`

`CPX_PARAM_NODELIMIT`

NODE LIMIT \rightarrow

`Cpx setintparam (env, lp, 100);`

`Cpx mipopt ();`
`...`

`if (Cpx setx (---, xstar, --))`
`continue;`

REDUCED COST FIXING

$UB = 110$

LP value = 107.5

$\bar{c}_j = 10.5$

(nonbasic $\rightarrow x_j^* = 0$)

$x_j = 1 \Rightarrow LP \text{ value} \geq 107.5 + \bar{c}_j > UB$

\Rightarrow FIX x_j TO 0!