Today: 2024-12-15

Hours per day: 8

Customise report

Expert	Py Show?	Py Stacked?	Py Gantt?	Py Table?	Py Wo
DEV.Barłomiej	☑	☑	☑	☐	☐
DEV.Cezary	☑	☑	☑	☐	☐
DEV.Dariusz	☑	☑	☑	☐	☐
DEV.Eugenius	☑	☑	☑	☐	☐
DEV.Franciszek	☑	☑	☑	☐	☐
DEV.Gustaw	☑	☑	☑	☐	☐
DEV.Hubert	☑	☑	☑	☐	☐
DEV.Ignacy	☑	☑	☑	☐	☐
DEV.Jarosław	☑	☑	☑	☐	☐
DEV.Paweł	☑	☑	☑	☐	☐

Tasks definition

Name	Start day	End day	Work	Days	Workdays	Avg
DEV.p1.m	2024-12-16	2025-04-02	400	108	77	5.19
DEV.p2.m	2024-12-16	2025-04-02	420	108	77	5.45
DEV.p3.m	2024-12-16	2025-04-02	430	108	77	5.58
DEV.p4.m	2024-12-16	2025-04-02	440	108	77	5.71
DEV.p5.m	2024-12-16	2025-03-02	200	77	54	3.70
DEV.p6.m	2024-12-16	2025-04-02	200	108	77	2.60
DEV.p7.m	2024-12-16	2025-03-02	200	77	54	3.70
DEV.p8.m	2024-12-16	2025-04-02	200	108	77	2.60
DEV.p9.m	2024-12-16	2025-03-02	200	77	54	3.70
DEV.p10.m	2024-12-16	2025-04-02	200	108	77	2.60

Experts names

Name	Comment
DEV.Alojzy	1 task, no bounds
DEV.Barłomiej	1 task, 1 xbday
DEV.Cezary	1 task, 2 xbday
DEV.Dariusz	1 task, 1 xbsum
DEV.Eugenius	2 tasks, no bounds
DEV.Franciszek	2 tasks, 1 ubday
DEV.Gustaw	2 tasks, 1 ubsum
DEV.Hubert	2 tasks, 1 ubday, 1 ubsum
DEV.Ignacy	3 tasks, no bounds
DEV.Jarosław	3 tasks, 1 ubday(2), 2 ubsum

Links

Expert	Task
DEV.Alojzy	DEV.p1.m
DEV.Barłomiej	DEV.p2.m
DEV.Cezary	DEV.p3.m
DEV.Dariusz	DEV.p4.m
DEV.Eugenius	DEV.p5.m
DEV.Eugenius	DEV.p6.m
DEV.Franciszek	DEV.p7.m
DEV.Franciszek	DEV.p8.m
DEV.Gustaw	DEV.p9.m
DEV.Gustaw	DEV.p10.m

Bounds xbday

Expert	Task	Start day	End day	Lower	Upper
DEV.Barłom	DEV.p2.m	2024-12-16	2024-12-27	6	6
DEV.Cezary	DEV.p3.m	2024-12-16	2024-12-20	5	5
DEV.Cezary	DEV.p3.m	2024-12-23	2024-12-27	3	3

Bounds xbsum

Expert	Task	Start day	End day	Lower	Upper
DEV.Dariusz	DEV.p4.m	2024-12-16	2024-12-20	16	16

Bounds ubday

Expert	Start day	End day	Lower	Upper
DEV.Franciszek	2024-12-16	2024-12-27	2	2
DEV.Hubert	2024-12-16	2024-12-27	1	1
DEV.Jarosław	2024-12-16	2024-12-27	2	2
DEV.Paweł	2024-12-16	2024-12-27	1	1

Bounds ubsum

Expert	Task	Start day	End day	Lower	Upper
DEV.Gustaw	DEV.p9.m	2024-12-16	2024-12-20	4	4
DEV.Hubert	DEV.p11.m	2024-12-16	2024-12-20	3	3
DEV.Jarosław	DEV.p16.m	2024-12-16	2024-12-20	3	3
DEV.Jarosław	DEV.p18.m	2024-12-16	2024-12-20	3	3
DEV.Paweł	DEV.p19.m	2024-12-16	2024-12-20	2	2

Expert bounds and preferences

Expert	Start day	End day	Lower	Upper
empty				

Invoicing periods

Name	Start day	End day	Days	Workdays
25.Jan	2024-12-11	2025-01-15	36	25
25.Feb	2025-01-16	2025-02-13	29	21
25.Mar	2025-02-14	2025-03-16	31	21
25.Apr	2025-03-17	2025-04-14	29	21
25.May	2025-04-15	2025-05-18	34	24

Invoicing periods bounds

Expert	Period	Lower	Upper
DEV.Paweł	25.Jan	100	200
DEV.Paweł	25.Feb	100	200
DEV.Paweł	25.Mar	100	200
DEV.Paweł	25.Apr	0	200
DEV.Paweł	25.May	0	200

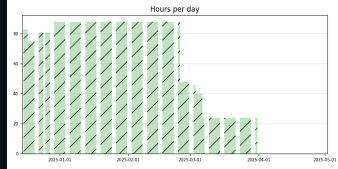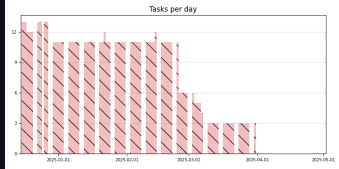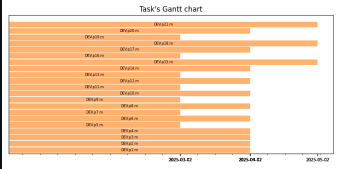# Yumbo. Scheduling, Planning and Resource Allocation

Zbigniew Romanowski, Paweł Koczyk

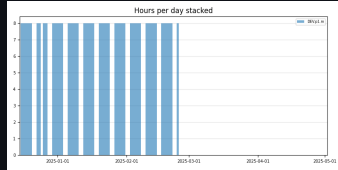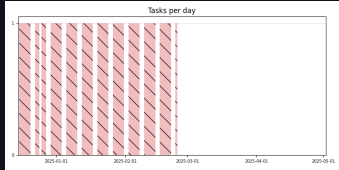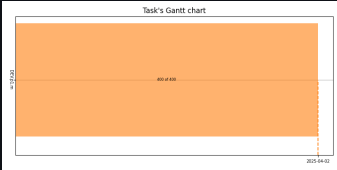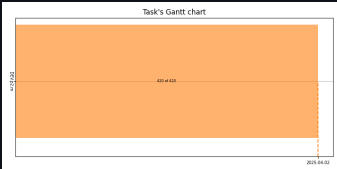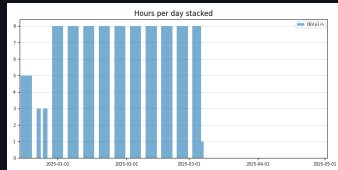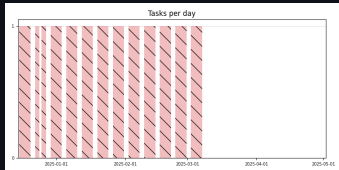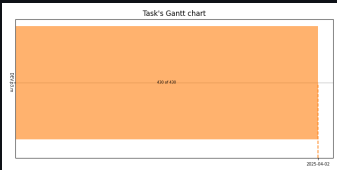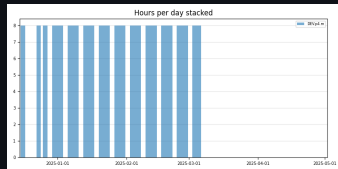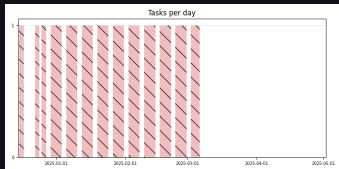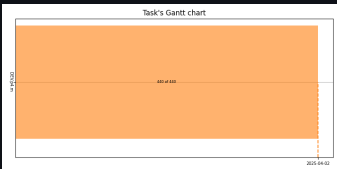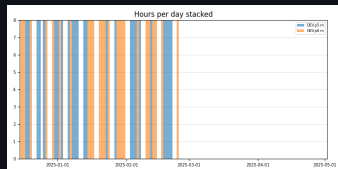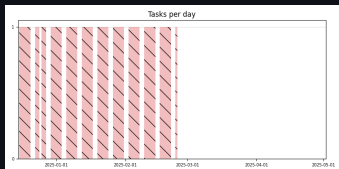## All experts overview

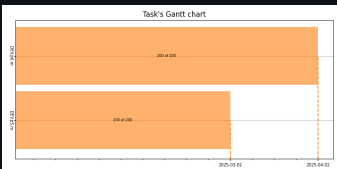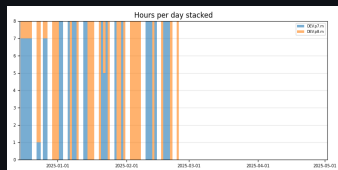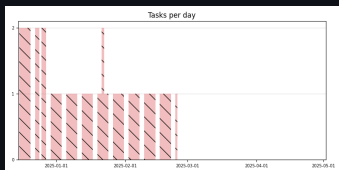
DEV.Alojzy 1 task, no bounds
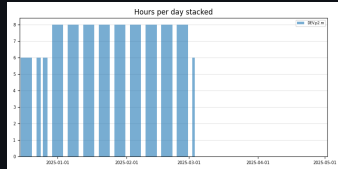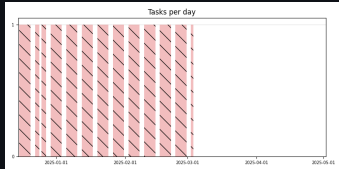
DEV.Barłomiej 1 task, 1 xbday
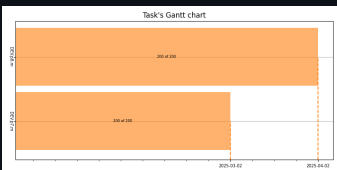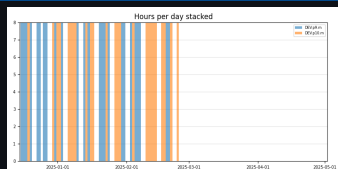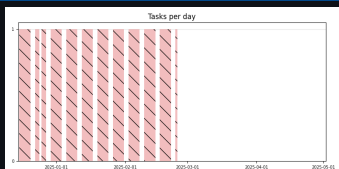

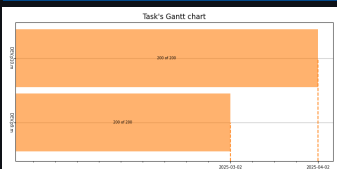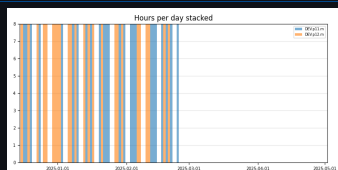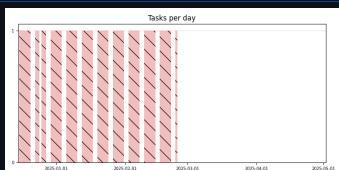### DEV.Cezary 1 task, 2 xbday

DEV.Dariusz 1 task, 1 xbsum
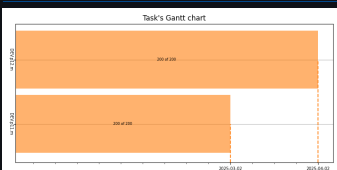

DEV.Eugenius 2 tasks, no bounds
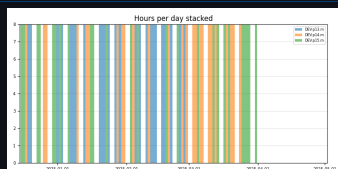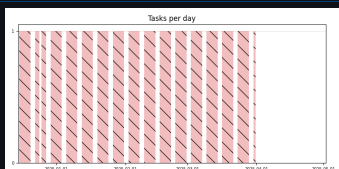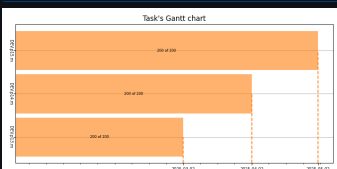

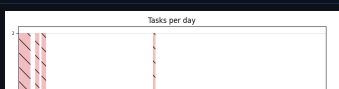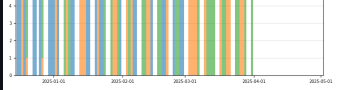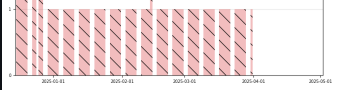### DEV.Franciszek 2 tasks, 1 ubday

DEV.Gustaw 2 tasks, 1 ubsum

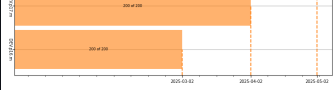
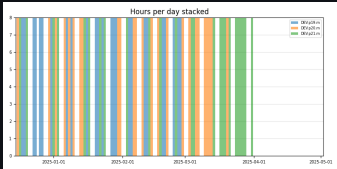### DEV.Hubert 2 tasks, 1 ubday, 1 ubsum

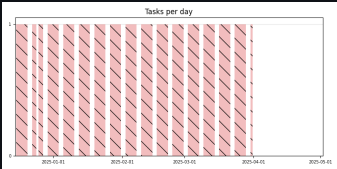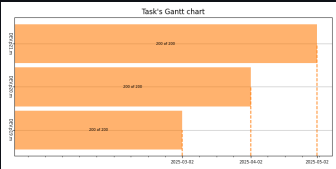### DEV.Ignacy 3 tasks, no bounds

DEV.Jarosław 3 tasks, 1 ubday(2), 2 ubsum

DEV.Paweł 3 tasks, 1 ubday(1), 2 ubsum

Solver output at 03 January 2025, 17:57:47 PM

```
HiGHS 1.7.1:  tech:outlev = 1
Running HiGHS 1.7.1 (git hash: dcf3813): Copyright (c) 2024 HiGHS under MIT licence terms
Coefficient ranges:
  Matrix [1e+00, 3e+00]
  Cost   [1e+00, 1e+00]
  Bound  [1e+00, 8e+00]
  RHS    [1e+00, 4e+02]
Presolving model
33900 rows, 33421 cols, 69684 nonzeros  0s
3407 rows, 18196 cols, 8798 nonzeros  0s
3456 rows, 2960 cols, 8805 nonzeros  0s

Solving MIP model with:
  3456 rows
  2960 cols (1466 binary, 1503 integer, 0 implied int., 0 continuous)
  8805 nonzeros

        Nodes    |   B&B Tree   |        Objective Bounds        |  Dynamic Constraints |    Work
     Proc. InQueue |  Leaves  Expl. | BestBound       BestSol      Gap |  Cuts  InLp Confl. | LpIters   Time

         0      0       0   0.00%  150.9692373    inf           inf      0     0     0      0     0.1s
R        0      0       0   0.00%  16650.025611   16650.025611  0.00%    0     0     0    1350     0.2s

Solving report
  Status            Optimal
  Primal bound      16650.0256107
  Dual bound        16650.0256107
  Gap               0% (tolerance: 0.01%)
  Solution status   feasible
                    16650.0256107 (objective)
                    0 (bound viol.)
                    0 (int. viol.)
                    0 (row viol.)
  Timing            0.17 (total)
                    0.13 (presolve)
                    0.00 (postsolve)
  Nodes             1
  LP iterations     1350 (total)
                    0 (strong br.)
                    0 (separation)
                    0 (heuristics)
HiGHS 1.7.1: optimal solution; objective 16650.02561
1350 simplex iterations
1 branching nodes
```