

Linear programming with ortools – testing the code

Exercise 3:

```
>>> LpProblemSolver()
number of constraints5
Constraint for x 0
Constraint for y 1
>= ?1
comparison number ?5
Constraint for x 1
Constraint for y 1
>= ?1
comparison number ?10
Constraint for x -1
Constraint for y 1
>= ?0
comparison number ?-2
Constraint for x 1
Constraint for y 0
>= ?0
comparison number ?0
Constraint for x 0
Constraint for y 1
>= ?0
comparison number ?0
a3
b1
maximise ?0
Objective value = 22.0
x = 6.0
y = 4.0
```

Exercise 4:

```
>>> LpProblemSolver()  
number of constraints5  
Constraint for x 3  
Constraint for y 1  
>= ?0  
comparison number ?6  
Constraint for x 0  
Constraint for y 1  
>= ?0  
comparison number ?3  
Constraint for x 1  
Constraint for y 0  
>= ?1  
comparison number ?4  
Constraint for x 1  
Constraint for y 0  
>= ?0  
comparison number ?0  
Constraint for x 0  
Constraint for y 1  
>= ?0  
comparison number ?0  
a1  
b1  
maximise ?1  
Objective value = 4.0  
x = 1.0  
y = 3.0
```

Exercise 6 (with no optimal solution):

```
>>> LpProblemSolver()
number of constraints5
Constraint for x 1
Constraint for y 1
>= ?0
comparison number ?4
Constraint for x -1
Constraint for y 1
>= ?1
comparison number ?4
Constraint for x -1
Constraint for y 2
>= ?0
comparison number ?-4
Constraint for x 1
Constraint for y 0
>= ?0
comparison number ?0
Constraint for x 0
Constraint for y 1
>= ?0
comparison number ?0
a3
b1
maximise ?0
error problem doesnt have optimal solution
```