

Ind_Learning_Simplex_Khafaji_Code

February 4, 2025

```
[1]: import numpy as np
import scipy as sp
```

```
[2]: c = [-3,-5,-4]
A = [[2, 3, 0], [3, 2, 2], [0, 4, 5]]
b = [8, 15, 10]
```

```
[3]: x0_bounds = (0, None)
x1_bounds = (0, None)
```

```
[4]: from scipy.optimize import linprog
res = linprog(c, A_ub=A, b_ub=b, method='simplex', options={"disp": True})
print(res)
```

Optimization terminated successfully.

Current function value: -19.341463

Iterations: 3

message: Optimization terminated successfully.

success: True

status: 0

fun: -19.341463414634145

x: [3.634e+00 2.439e-01 1.805e+00]

nit: 3

C:\Users\mosta\AppData\Local\Temp\ipykernel_21564\1766313006.py:2:

DeprecationWarning: `method='simplex'` is deprecated and will be removed in SciPy 1.11.0. Please use one of the HiGHS solvers (e.g. `method='highs'`) in new code.

```
res = linprog(c, A_ub=A, b_ub=b, method='simplex', options={"disp": True})
```

```
[4]:
```