

Exercise 9, Discrete Mathematics for Bioinformatics

Sascha Meiers, Martin Seeger

Winter term 2011/2012

9.1 PORTA — Polyhedron Representation Transformation Algorithm

a) `$ lp_solve example1.lp`

Value of objective function: 2.5

Actual values of the variables:

x1	1.5
x2	0
x3	0.5
x4	0.5

b) Input file:

`DIM = 4`

`LOWER_BOUNDS`

`0 0 0 0`

`UPPER_BOUNDS`

`??? hier komm ich nicht weiter`

`END`

Output file:

`DIM = 4`

`CONV_SECTION`

`???`

`END`

c)

9.2 Branch and Bound

a) `$ lp_solve example2.lp`

Value of objective function: 22.4

Actual values of the variables:

x1	2.8
----	-----

x2	0
x3	0
x4	0