Nathan Donaldson/U0632803

CS4150/PS10 – 3

/* Objective function */

min: a;

/* Variable bounds */

a >= 3 - m - b;

a >= m - 3 + b;

a >= 5 - 2m - b;

a >= 2m - 5 + b;

a >= 7 - 3m - b;

a >= 3m - 7 + b;

a >= 11 - 5m - b;

a >= 5m - 11 + b;

a >= 14 - 7m - b;

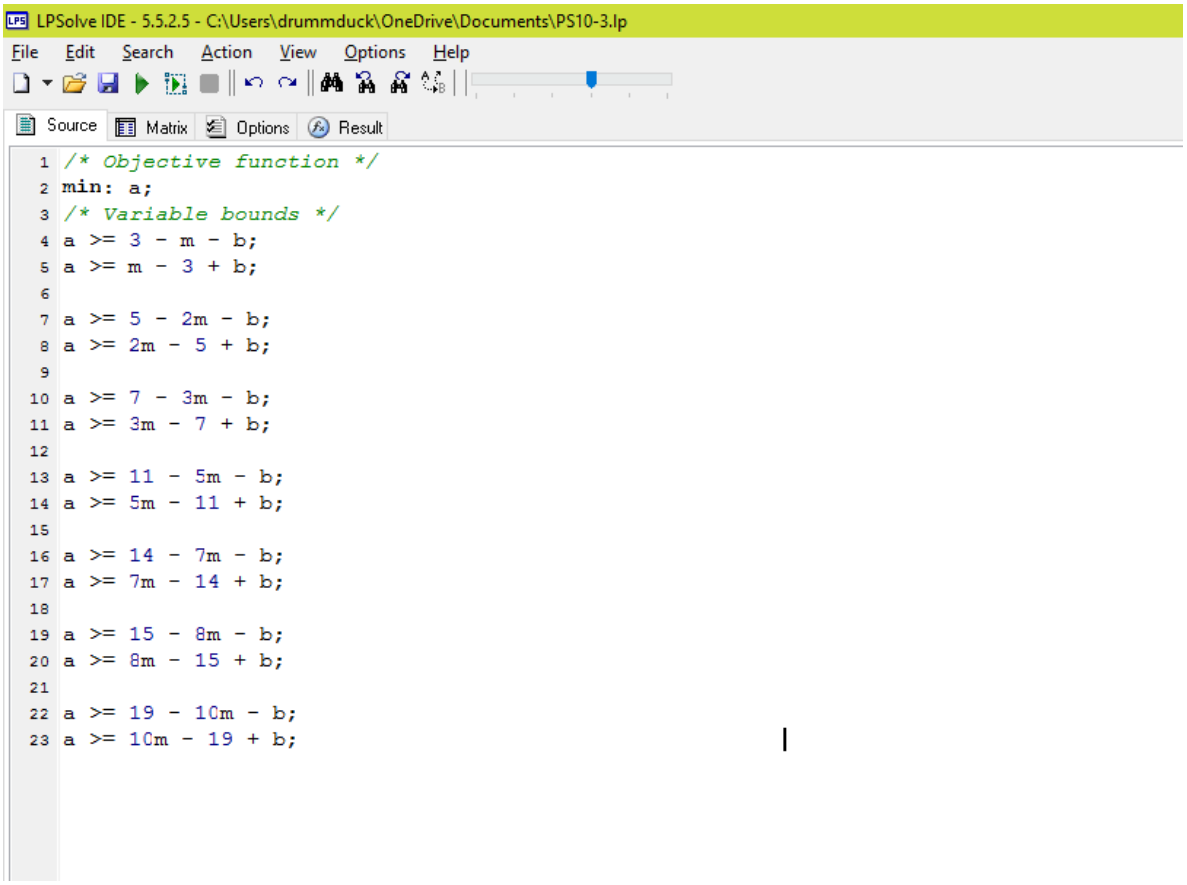
a >= 7m - 14 + b;

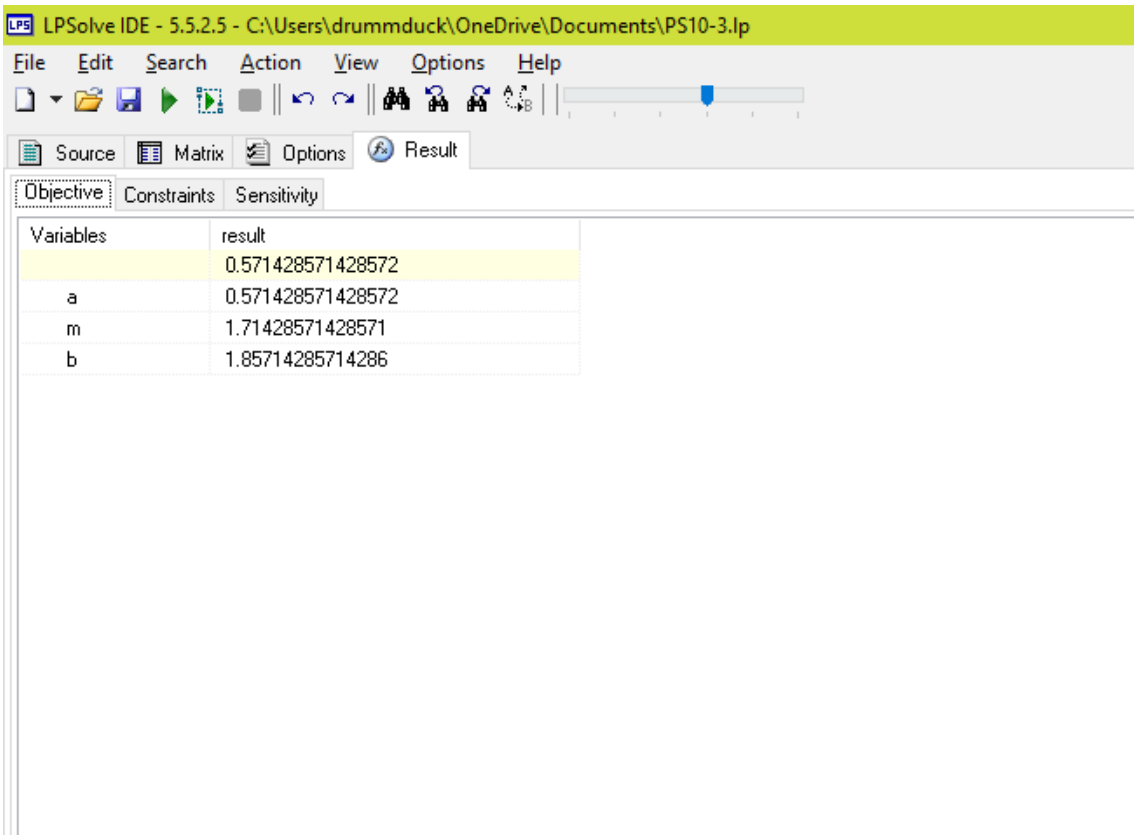
a >= 15 - 8m - b;

a >= 8m - 15 + b;

a >= 19 - 10m - b;

a >= 10m - 19 + b;


LPSolve IDE - 5.5.2.5 - C:\Users\drummduck\OneDrive\Documents\PS10-3.lp
File Edit Search Action View Options Help
Source Matrix Options Result
/* Objective function */
min: a;
/* Variable bounds */
a >= 3 - m - b;
a >= m - 3 + b;
a >= 5 - 2m - b;
a >= 2m - 5 + b;
a >= 7 - 3m - b;
a >= 3m - 7 + b;
a >= 11 - 5m - b;
a >= 5m - 11 + b;
a >= 14 - 7m - b;
a >= 7m - 14 + b;
a >= 15 - 8m - b;
a >= 8m - 15 + b;
a >= 19 - 10m - b;
a >= 10m - 19 + b;



The optimum value for m is 1.71428571428571 and the optimum value for b is 1.85714285714286.

The maximum absolute error calculated by the solver is 0.571428571428572.