Initial Dictionary

x_7	-1.0	$+8.00x_1 +3.00x_2 +1.00x_3 +3.00x_4 -10.00x_5 +10.00x_6$
x_8	2.0	$+4.00x_1 -4.00x_2 +9.00x_3 +1.00x_4 +7.00x_5 +4.00x_6$
x_9	3.0	$-8.00x_1 +7.00x_2 -9.00x_3 +1.00x_4 +8.00x_5 -6.00x_6$
x_{10}	3.0	$+6.00x_1 -3.00x_2 -4.00x_3 -8.00x_4 -6.00x_5 -5.00x_6$
x_{11}	0.0	$-2.00x_1 -3.00x_2 -9.00x_3 -4.00x_4 +2.00x_5 -2.00x_6$
z	0.0	$+4.00x_1 -4.00x_2 +2.00x_3 +2.00x_4 -1.00x_5 -1.00x_6$

0.1 Initialization Phase: Dual Problem Solving

New Objective in primal was changed to :

$$\max \sum_{j=1}^{6} -x_j$$

Primal variable x_j corresponds to dual variable y_j for $j = 1, \ldots, 11$ Dual Dictionary (with objective changed is):

y_1	1.0	$-8.00y_7 -4.00y_8 +8.00y_9 -6.00y_{10} +2.00y_{11}$
y_2	1.0	$-3.00y_7 +4.00y_8 -7.00y_9 +3.00y_{10} +3.00y_{11}$
y_3	1.0	$-1.00y_7 -9.00y_8 +9.00y_9 +4.00y_{10} +9.00y_{11}$
y_4	1.0	$-3.00y_7 -1.00y_8 -1.00y_9 +8.00y_{10} +4.00y_{11}$
y_5	1.0	$+10.00y_7 -7.00y_8 -8.00y_9 +6.00y_{10} -2.00y_{11}$
y_6	1.0	$-10.00y_7 -4.00y_8 +6.00y_9 +5.00y_{10} +2.00y_{11}$
z	-0	$+1.00y_7 -2.00y_8 -3.00y_9 -3.00y_{10}$

Unbounded Dictionary! Initialization returns unbounded dual dictionary after 2 pivots

y_1	0.2	$+0.80y_6 -0.80y_8 +3.20y_9 -10.00y_{10} +0.40y_{11}$
y_2	0.7	$+0.30y_6 +5.20y_8 -8.80y_9 +1.50y_{10} +2.40y_{11}$
y_3	0.9	$+0.10y_6 -8.60y_8 +8.40y_9 +3.50y_{10} +8.80y_{11}$
y_4	0.7	$+0.30y_6 +0.20y_8 -2.80y_9 +6.50y_{10} +3.40y_{11}$
y_5	2.0	$-1.00y_6 -11.00y_8 -2.00y_9 +11.00y_{10}$
y_7	0.1	$-0.10y_6 -0.40y_8 +0.60y_9 +0.50y_{10} +0.20y_{11}$
z	0.1	$-0.10y_6 -2.40y_8 -2.40y_9 -2.50y_{10} +0.20y_{11}$

Original Problem is Infeasible LP Relaxation is infeasible. Nothing more to be done.

Done.Added 0 cuts