

Case	Type	Num of Tight Constraints	Tight Constraints	Num of non-integral variables
i	T1	0	None	2
ii	T2	1	$x_i = y_i$	2
iii	T3	1	$y_i = 1$	1
iv	T3	1	$x_i = 1$	1
v	T4	2	$x_i = 1, y_i = 0$	0
vi	T4	2	$y_i = 0, x_i = y_i$	0
vii	T4	2	$x_i = 1, x_i = y_i$	0
viii	T5	3	$y_i = 0, x_i = y_i, x_i = 1$	Not Possible