

WinQSB

Variable -->	X1	X2	Direction	R. H. S.
Maximize	4	-1		
C1	7	-2	<=	14
C2	0	1	<=	3
C3	2	-2	<=	3
LowerBound	0	0		
UpperBound	M	M		
VariableType	Integer	Integer		

Branch-And-Bound Node Solution -- Iteration 1

03-17-2007 04:13:57	Decision Variable	Lower Bound	Upper Bound	Solution Value	Variable Type	Status
1	X1	0	M	2,8571	Integer	No
2	X2	0	M	3,0000	Integer	Yes
	Current	OBJ(Maximize) = 8,4286		>= ZL =	-M	Non-integer

Branch-And-Bound Node Solution -- Iteration 2

03-17-2007 04:14:43	Decision Variable	Lower Bound	Upper Bound	Solution Value	Variable Type	Status
1	X1	3,0000	M		Integer	
2	X2	0	M		Integer	
	This	node	is	infeasible	!!!!!!	

Branch-And-Bound Node Solution -- Iteration 3

03-17-2007 04:15:12	Decision Variable	Lower Bound	Upper Bound	Solution Value	Variable Type	Status
1	X1	0	2,0000	2,0000	Integer	Yes
2	X2	0	M	0,5000	Integer	No
	Current	OBJ(Maximize) = 7,5000		>= ZL =	-M	Non-integer

Branch-And-Bound Node Solution -- Iteration 4

03-17-2007 04:15:45	Decision Variable	Lower Bound	Upper Bound	Solution Value	Variable Type	Status
1	X1	0	2,0000	2,0000	Integer	Yes
2	X2	1,0000	M	1,0000	Integer	Yes
	Current	OBJ(Maximize) = 7,0000		>= ZL =	-M	New incumbent

Branch-And-Bound Node Solution -- Iteration 5

03-17-2007 04:16:21	Decision Variable	Lower Bound	Upper Bound	Solution Value	Variable Type	Status
1	X1	0	2,0000	1,5000	Integer	No
2	X2	0	0	0	Integer	Yes
	Current	OBJ(Maximize) = 6,0000		<= ZL =	7,0000	Not better!!

Wolsey, p 95

	04:17:42	Saturday	March	17	2007	
	Decision Variable	Solution Value	Unit Cost or Profit c(j)	Total Contribution	Reduced Cost	Basis Status
1	X1	2,0000	4,0000	8,0000	0	basic
2	X2	1,0000	-1,0000	-1,0000	-1,0000	at bound
	Objective	Function	(Max.) =	7,0000		
	Constraint	Left Hand Side	Direction	Right Hand Side	Slack or Surplus	Shadow Price
1	C1	12,0000	<=	14,0000	2,0000	0
2	C2	1,0000	<=	3,0000	2,0000	0
3	C3	2,0000	<=	3,0000	1,0000	0