



6 Lecture 7 Inclass 6. (a) The node with highest objective value has the highest potential to lead to an IP feasible solution with high objective (b) We can find the solution faster. 6 6 7. (a) number of product $| X_1 |$ number of product $| X_2 |$ $Wi = \begin{cases} 0 & \text{if } xi = 0 \\ 1 & \text{if } xi > 0 \end{cases}$ 6 if xi=0 if xi>0Vi=1.2 5x1- 70W1+ 2x2 - 40W2 max 5, t 9x1+ 1x2 =1x0 XIEGWI X2 = 120 W2 (b) Zo = { 0 W1 = 0 or W2 = 0 W1= 1 and W2=1 may 5x1- 70W1+1x2-40W2+208 9X1+ 1X2 = 1x0 51 t X1 = 10 W1 X2 = 10 W2 Z & WI Z & WZ Xi=0 Vi=1.12 Wi € {0,13 \ti=1,2 ₹ € {0,13