

Assignment Two for CS-6648

Dong Zhou

July 18, 2015

$$\begin{aligned}\text{Maximize } & 24x_1 + 2x_2 + 20x_3 + 4x_4 & (1) \\ \text{Subject to } & 8x_1 + 1x_2 + 5x_3 + 4x_4 \leq 9 & (2) \\ & x_i \in \{0, 1\} \text{ for } i = 1 \text{ to } 4. & (3)\end{aligned}$$

From above we can get:

$$24/8 = 3$$

$$2/1 = 2$$

$$20/5 = 4$$

$$4/4 = 1$$

item	1	2	3	4
value/lb.	\$3	\$2	\$4	\$1