

Assignment Two for CS-6648

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

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