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1 Example 1

Solve the following factory:

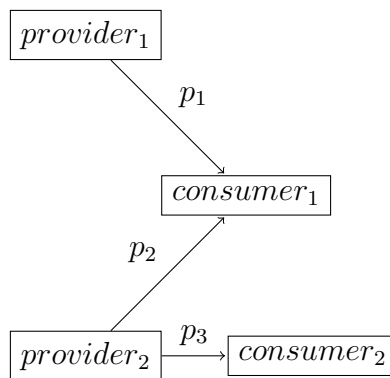


Figure 1: Factory

Generating the constraints:

$$p_1(t) < provider_1(t) \quad (1)$$

$$p_3(t) < consumer_2(t) \quad (2)$$

$$\left\{ \begin{array}{l} \left\{ \begin{array}{l} p_2(t) < \frac{consumer_1(t)}{2} \\ p_1(t) < consumer_1(t) - p_2(t) \end{array} \right. , \quad \text{if } p_1(t) \geq p_2(t) \\ \left\{ \begin{array}{l} p_1(t) < \frac{consumer_1(t)}{2} \\ p_2(t) < consumer_1(t) - p_1(t) \end{array} \right. , \quad \text{if } p_1(t) < p_2(t) \end{array} \right. \quad (3)$$

$$\left\{ \begin{array}{l} \left\{ \begin{array}{l} p_3(t) < \frac{provider_2(t)}{2} \\ p_2(t) < provider_2(t) - p_3(t) \end{array} \right. , \quad \text{if } p_2(t) \geq p_3(t) \\ \left\{ \begin{array}{l} p_2(t) < \frac{provider_2(t)}{2} \\ p_3(t) < provider_2(t) - p_3(t) \end{array} \right. , \quad \text{if } p_2(t) < p_3(t) \end{array} \right. \quad (4)$$

Figure 2: Constraints