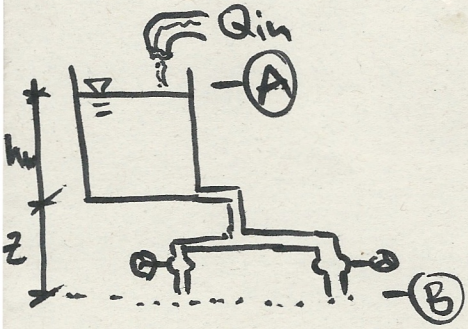

Bernoulli $A \rightarrow B$

$$h_w + z + \frac{\alpha \cdot v_A^2}{2g} = \frac{\alpha \cdot v_B^2}{2g}$$

$$\rightarrow v_B = \sqrt{\frac{2g}{\alpha}\left(h_w + z + \frac{\alpha v_A^2}{2g}\right)}$$

$$Q_{Bout} = n_{taps} \cdot v_B \cdot A_{valve}$$

$$n_{Bottles} = \frac{Q_{Bout}}{V_{Bottle}} \cdot t$$

$$\Delta h_w = (Q_{in} - Q_{out}) \cdot \frac{\Delta t}{A_{container}}$$